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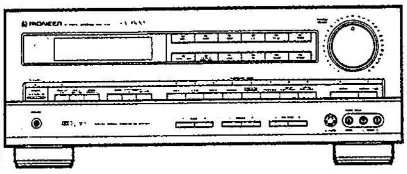
The Art of Entertainment

Service Manual



ORDER NO.
ARP2277

AV DIGITAL SURROUND AMPLIFIER

VSA-7500

- **This manual is applicable to the SD type.**

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1. EXPLODED VIEWS AND PARTS LIST

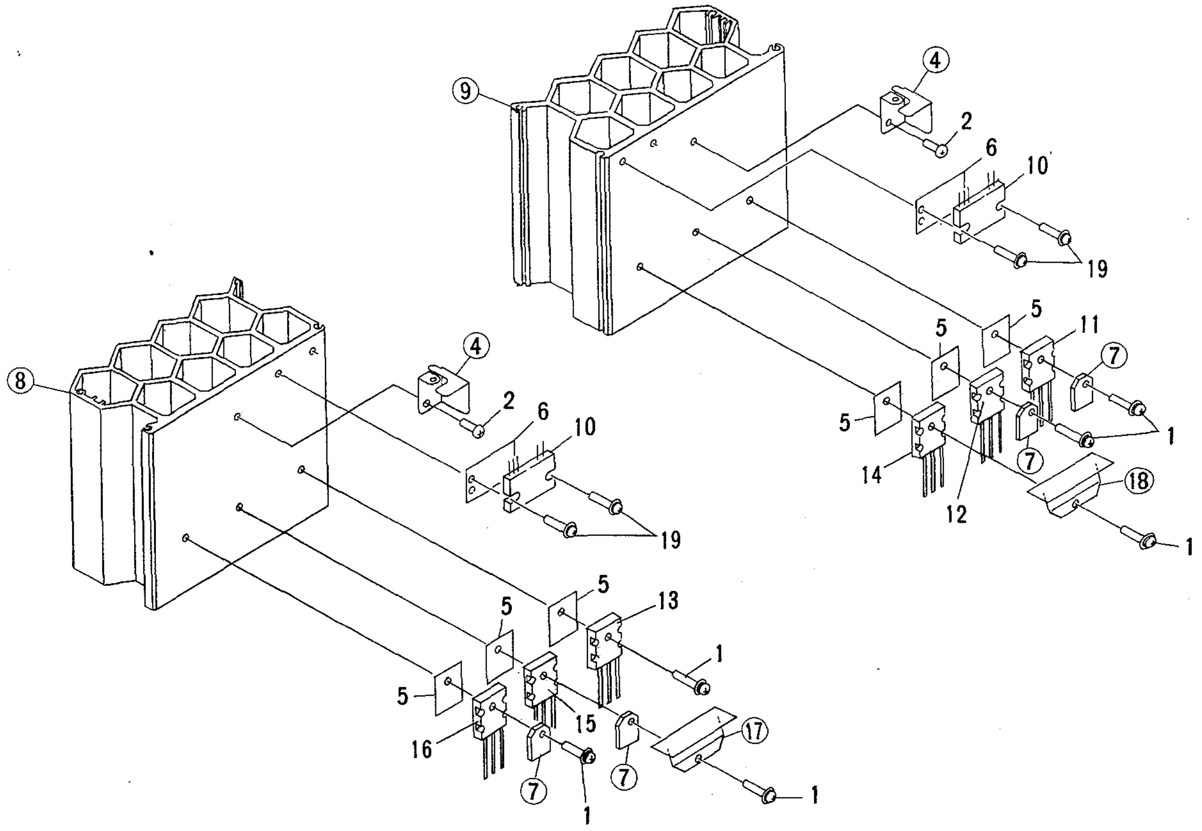
NOTES:

- Parts without part number cannot be supplied.
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

1.1 HEAT SINK SECTION

Parts List

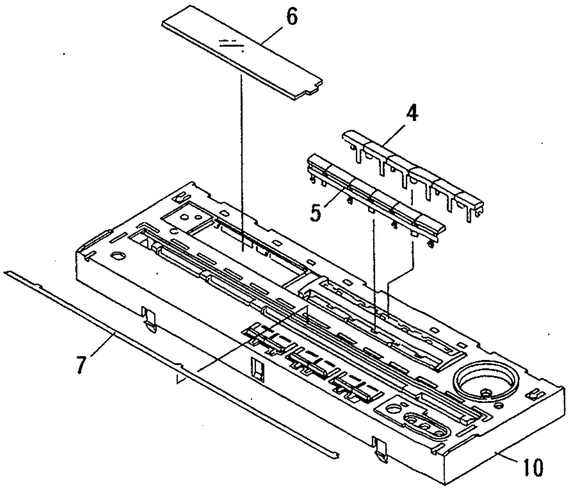
Mark	No.	Description	Part No.
	1	Screw	ABA – 297
	2	Screw	ABA – 298
	3	······	
	4	PCB support	
	5	Sheet	AEE1014
	6	Insulating spacer	AEP – 313
	7	Transistor holder	
	8	Heat sink R	
	9	Heat sink L	
⚠	10	IC501, 502 AUDIO IC	UPC1188H
⚠	11	Q1 Transistor	2SA1302
⚠	12	Q2 Transistor	2SC3281
⚠	13	Q3 Transistor	2SA1302
⚠	14	Q4 Transistor	2SC3281
⚠	15	Q5 Transistor	2SA1302
⚠	16	Q6 Transistor	2SC3281
	17	Temperature compensation assembly	
	18	Temperature compensation assembly	
	19	Screw	ABA1082

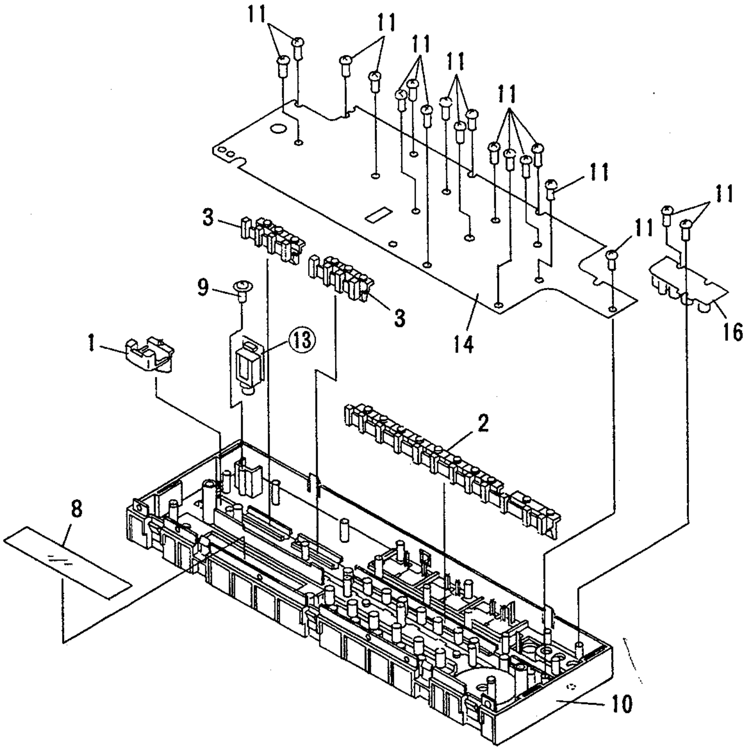


1.2 FRONT PANEL SECTION

Parts List

Mark	No.	Description	Part No.
	1	Power button	AAD1878
	2	Surround button	AAD1881
	3	Hinge button	AAD1882
	4	Function button assembly	AAD1903
	5	Function button assembly	AAD1904
	6	Acryl panel	AAK2044
	7	Indicator panel	AAK2045
	8	FL filter	AAK2161
	9	Screw	ABA1095
	10	Panel base	AMB1778
	11	Screw	BPZ26P080FMC
	12	······	
	13	HEADPHONE assembly	
⊙	14	μ – COM assembly	AWZ3817
	15	······	
	16	FRONT TERM assembly	

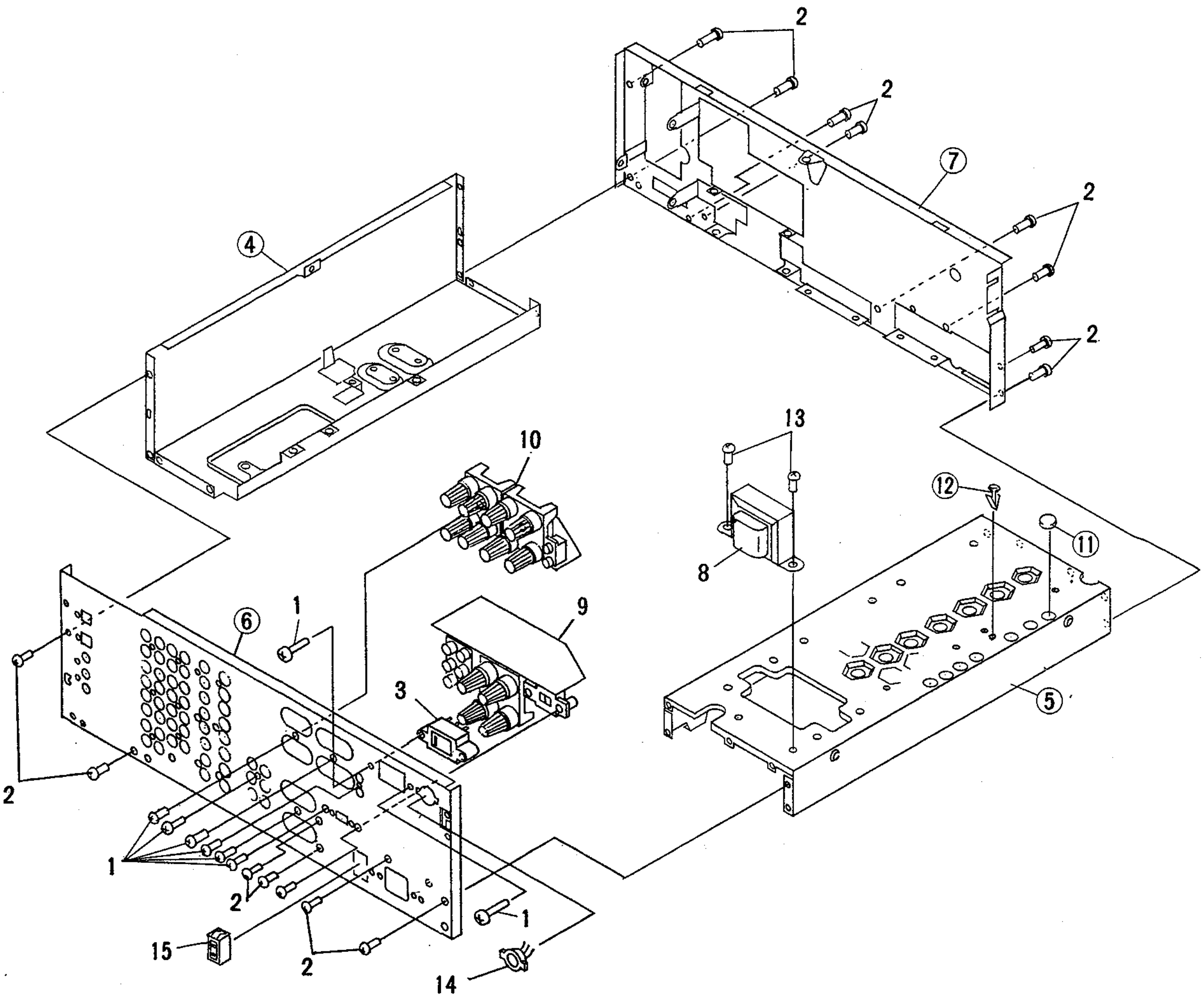




1.3 MAIN UNIT (1)

Parts List

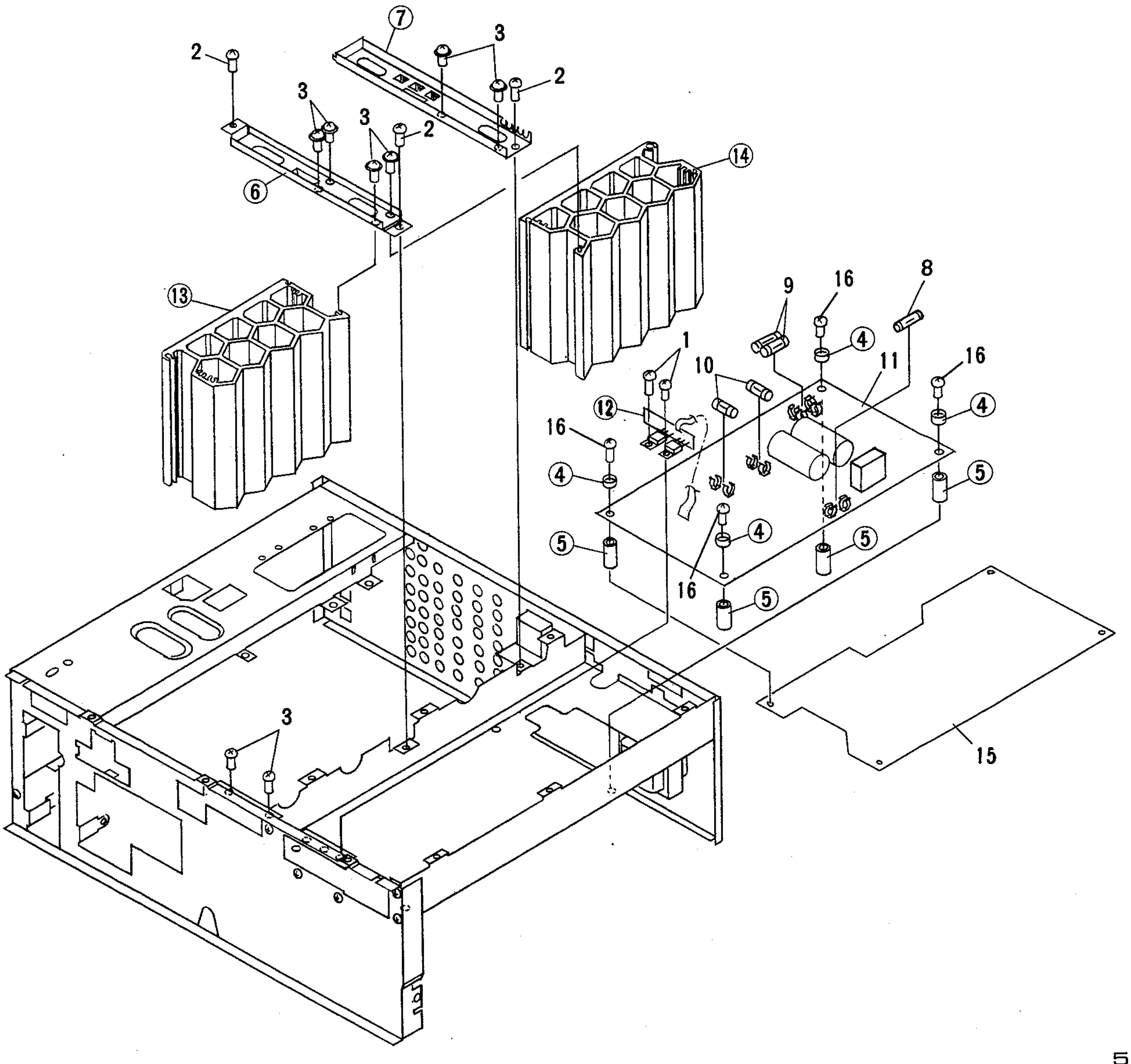
Mark	No.	Description	Part No.
	1	Screw	ABA – 298
	2	Screw	ABA1011
⚠	3	1P AC outlet	AKP1015
	4	Right frame	
	5	Transformer frame	
	6	Rear panel	
	7	Panel stay	
⚠	8	T2 Power transformer	ATT1161
⊙	9	REAR SP TERM assembly	AWZ3592
⊙	10	FRONT SP TERM assembly	AWZ3092
	11	Bush	
	12	PCB holder	
	13	Screw	ABA1009
	14	Voltage selector A	AKX – 507
	15	Voltage selector B	AKX1004



1.4 MAIN UNIT (2)

Parts List

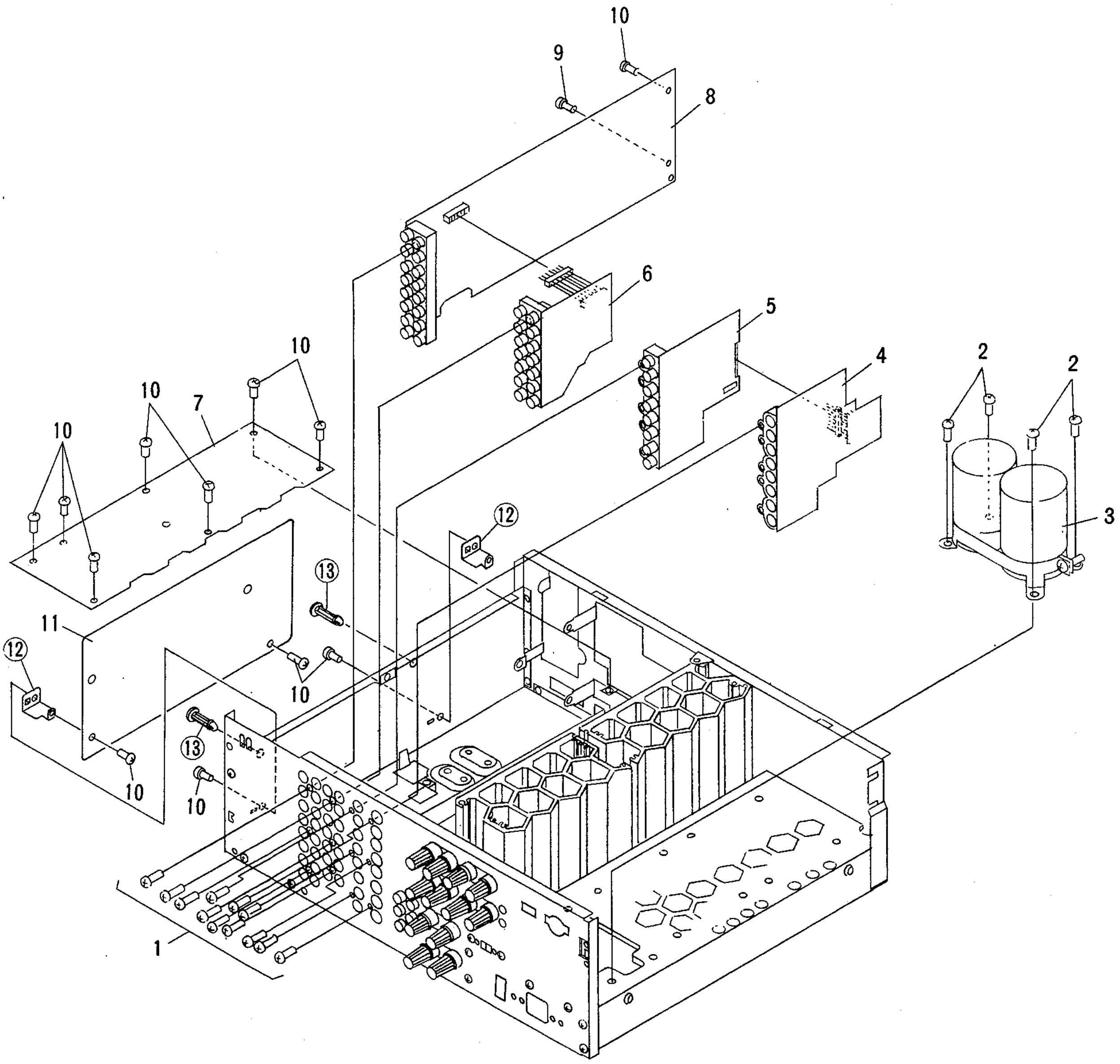
Mark	No.	Description	Part No.
	1	Screw	ABA – 298
	2	Screw	ABA1011
	3	Screw	ABA1050
	4	Bush	
	5	Collar	
	6	Heat sink holder	
	7	Center frame	
⚠	8	FU1 Fuse	AEK1001
⚠	9	FU4, 5 Fuse	AEK – 124
⚠	10	FU6, 7 Fuse	AEK – 124
⊙	11	POWER SUPPLY (POWER) assembly	AWZ3587
	12	POWER SUPPLY (REG) assembly	
	13	Heat sink	
	14	Heat sink	
	15	Barrier	AEC1316
	16	Screw	VBZ30P250FMC


7
3
2
2
3
3
2
6
14
13
9
16
8
1
10
11
16
12
16
4
4
5
4
5
16
5
5
4
5
3
15

1.5 MAIN UNIT (3)

Parts List

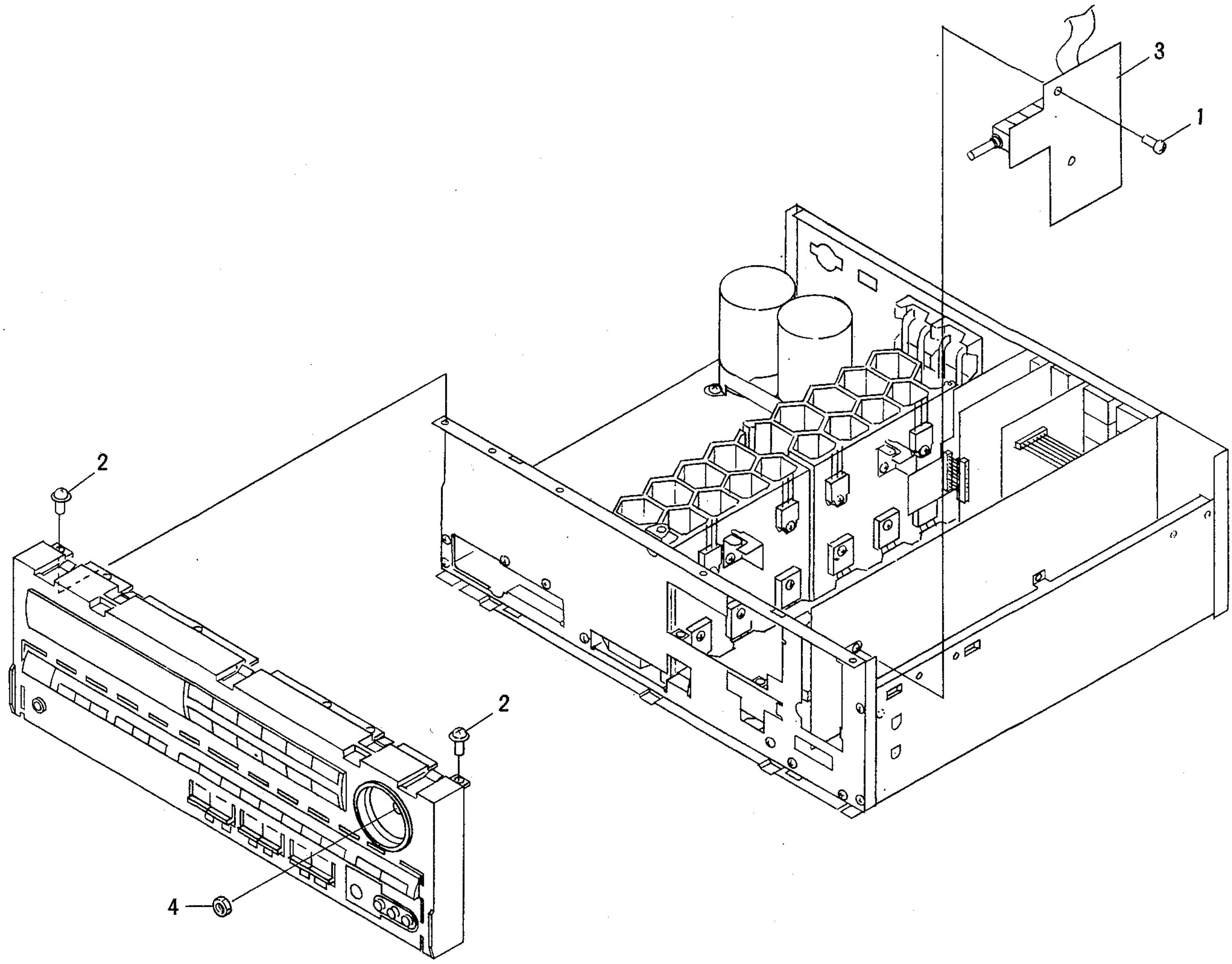
Mark	No.	Description	Part No.
	1	Screw	ABA – 298
	2	Screw	ABA1011
⚠	3	Electrolytic capacitor(C1)	ACH1155
⊙	4	S. assembly	AWZ3087
⊙	5	VIDEO assembly	AWZ3593
⊙	6	AV – INPUT SEL assembly	AWZ3591
⊙	7	FRONT POWER AMP assembly	AWZ3098
⊙	8	A – INPUT SEL assembly	AWZ3590
	9	Nylon rivet	AEC1160
	10	Screw	ABA1009
⊙	11	DISP assembly	AWZ3112
	12	PCB mounting plate	
	13	PCB support	



1.6 MAIN UNIT (4)

Parts List

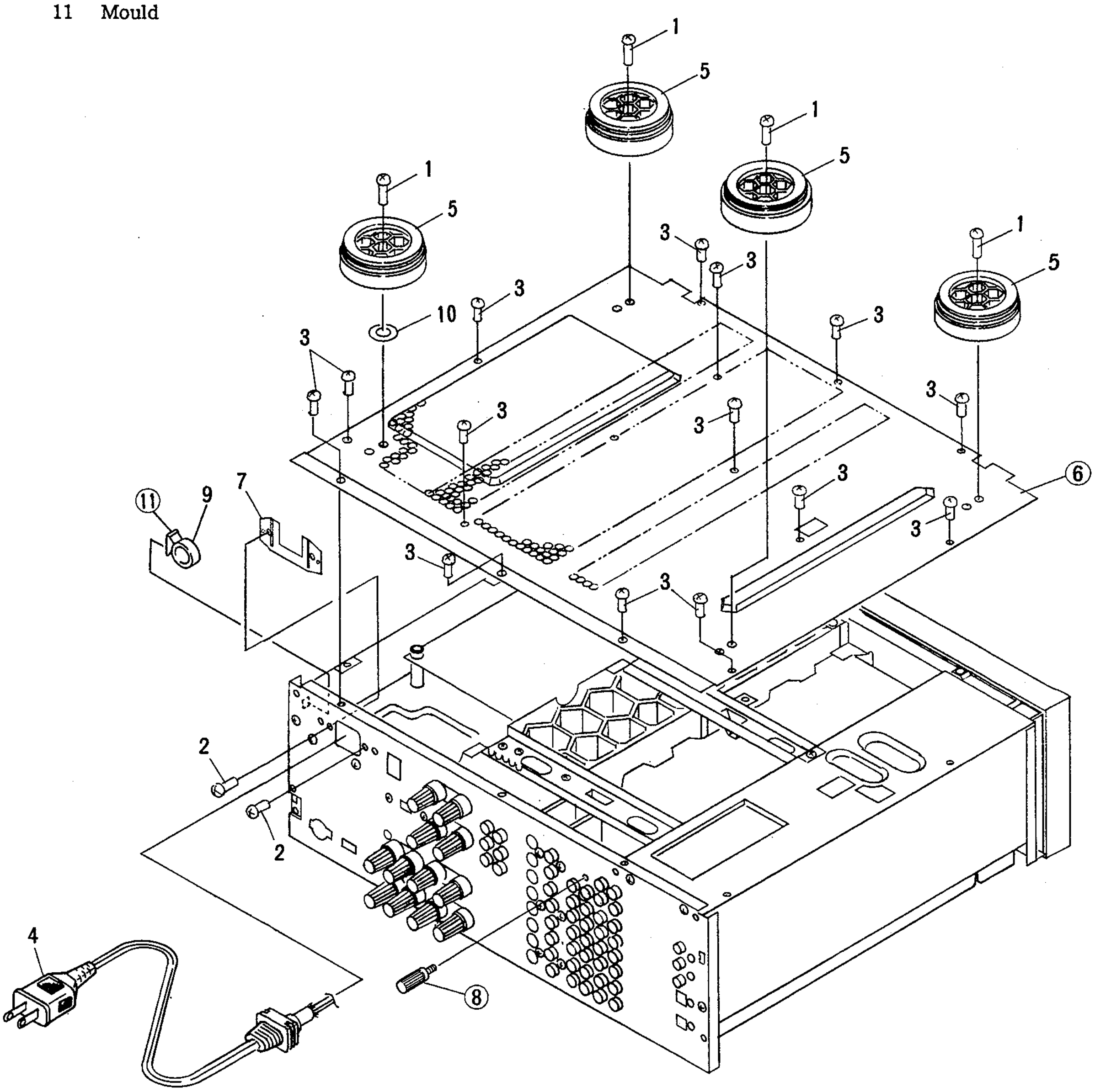
Mark	No.	Description	Part No.
	1	Screw	ABA1009
	2	Screw	ABA1011
⊙	3	VR assembly	AWZ3106
	4	Flange nut M9	ABN1006



1.7 MAIN UNIT (5)

Parts List

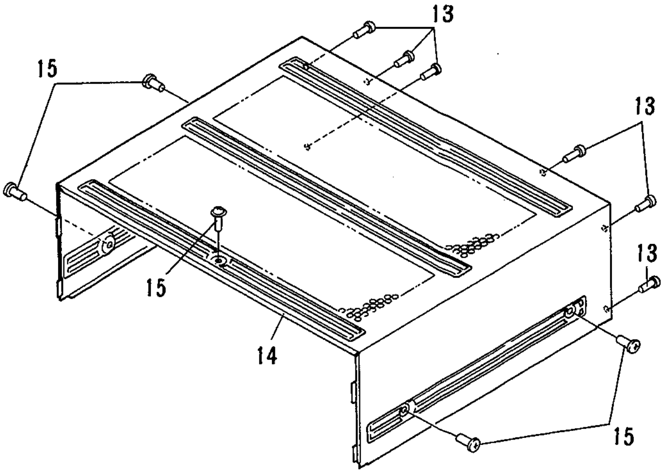
Mark	No.	Description	Part No.
	1	Screw	ABA1004
	2	Screw	ABA1009
	3	Screw	ABA1011
⚠	4	AC Power cord	ADG1073
	5	Leg assembly	AMR1159
	6	Bottom plate	
	7	AC cord spacer	ANG1153
	8	Terminal screw	
	9	Ferrite core	ATX1019
	10	Fiber washer	ABF1003
	11	Mould	

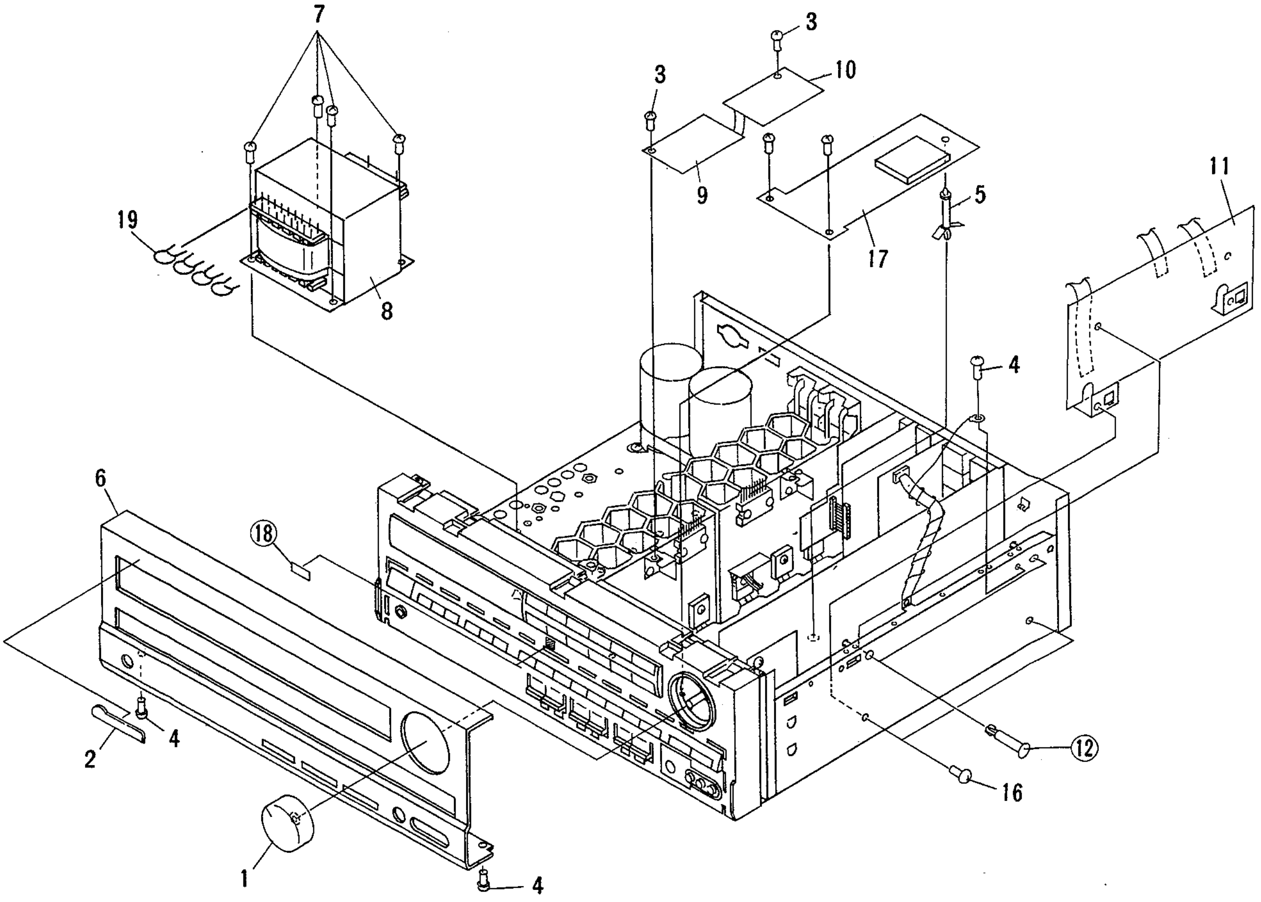

1
5
1
5
1
5
1
5
3
3
3
3
10
3
3
3
3
3
⑥
3
3
3
3
3
⑪
9
7
2
2
4
⑧

1.8 MAIN UNIT (6)

Parts List

Mark	No.	Description	Part No.
	1	VOL knob	AAB1140
	2	Name plate	AAM1029
	3	Screw	ABA1011
	4	Screw	ABA1048
	5	Spacer	AEC1292
	6	Front panel	ANB1472
	7	Screw	BBZ40P080FCU
⚠	8	T1 Power transformer	ATS1358
	9	REAR POWER AMP (A) assembly	
	10	REAR POWER AMP (B) assembly	
⊙	11	DSP assembly	AWZ3112
	12	PCB support	AEC1288
	13	Screw	ABA1011
	14	Bonnet	ANE1288
	15	Screw	FBT40P080FZK
	16	Screw	ABA1009
	17	SUPER CAPA assembly	AWZ3589
	18	Tape	
	19	Capacitors C3 – 6	CQMA473K250

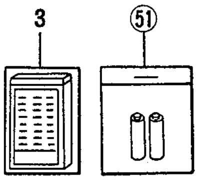


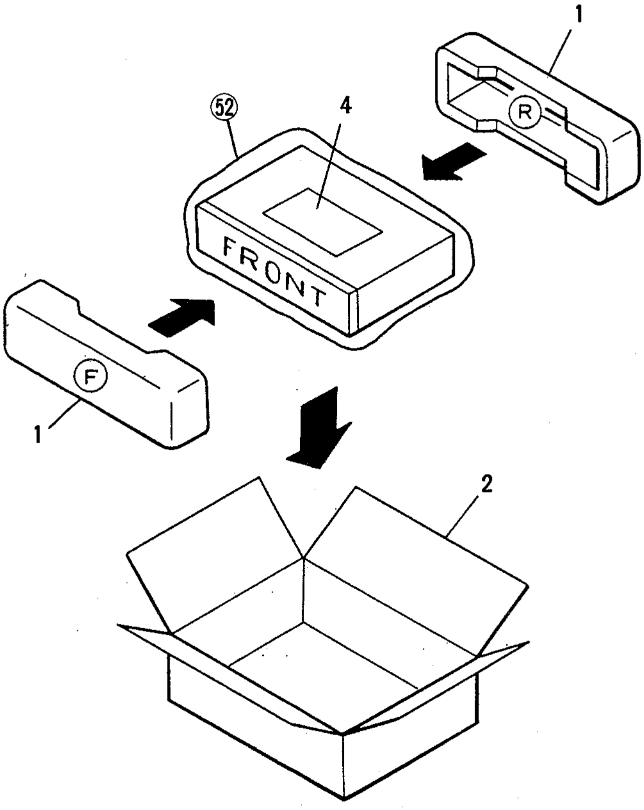


2. PACKING

Parts List

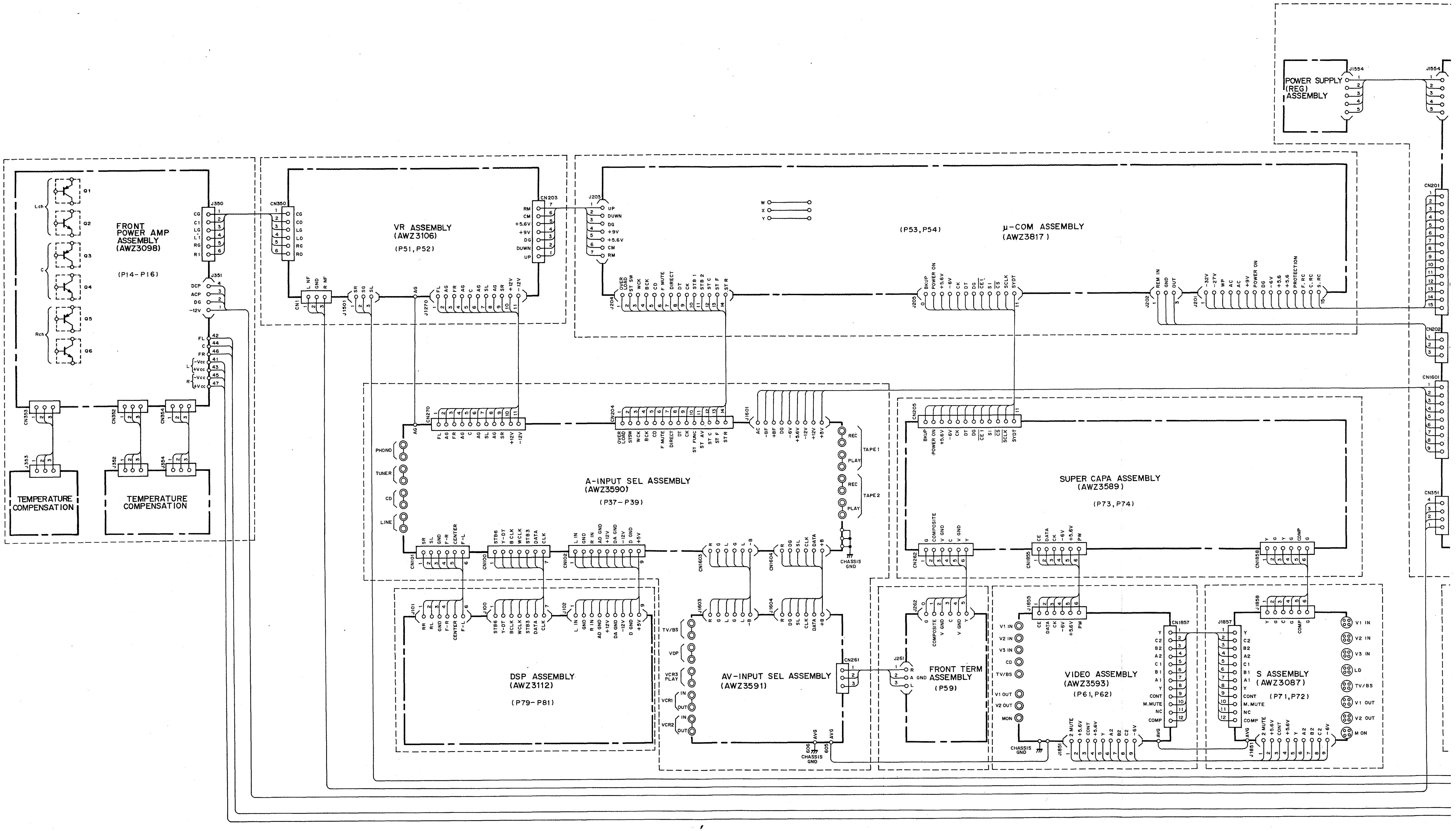
Mark	No.	Description	Part No.
	1	Styrol protector	AHA1408
	2	Packing case	AHD2081
	3	Remote control unit	AXD1217
	4	Operating instructions (English)	ARB1321
	51	Alkaline dry cell battery (LR03, AAA)	
	52	Sheet	



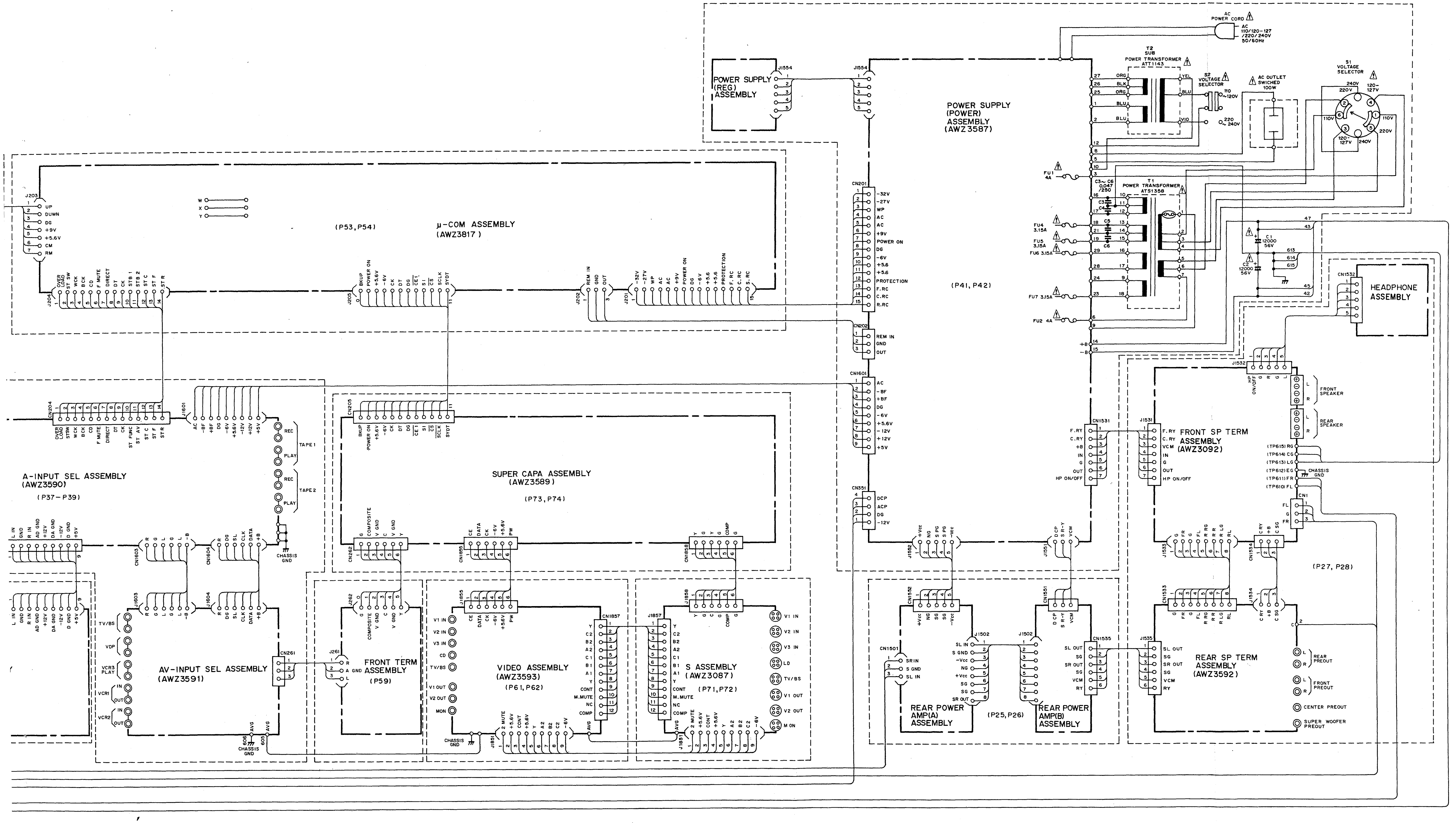


3. SCHEMATIC DIAGRAM AND P.C. BOARDS CONNECTION DIAGRAM

3.1 OVERALL SCHEMATIC DIAGRAM


POWER SUPPLY (REG) ASSEMBLY
J1554
FRONT POWER AMP ASSEMBLY (AWZ3098)
(P14-P16)
Lch
Rch
Q1
Q2
Q3
Q4
Q5
Q6
J350
J351
CN353
CN352
CN354
J353
J352
J354
TEMPERATURE COMPENSATION
TEMPERATURE COMPENSATION
VR ASSEMBLY (AWZ3106)
(P51,P52)
CN350
CN203
CN1
J1501
J1270
µ-COM ASSEMBLY (AWZ3817)
(P53,P54)
J203
J204
J205
J202
J201
CN201
CN202
CN1601
CN351
A-INPUT SEL ASSEMBLY (AWZ3590)
(P37-P39)
CN2270
CN2204
J1601
PHONO
TUNER
CD
LINE
REC
PLAY
TAPE 1
TAPE 2
CHASSIS GND
CN101
CN100
CN102
CN1603
CN1604
SUPER CAPA ASSEMBLY (AWZ3589)
(P73,P74)
CN205
CN262
CN1855
CN1858
DSP ASSEMBLY (AWZ3112)
(P79-P81)
J101
J100
J102
AV-INPUT SEL ASSEMBLY (AWZ3591)
J1603
J1604
CN261
TV/BS
VDP
VCR3 PLAY
VCR1
VCR2
IN
OUT
CHASSIS GND
FRONT TERM ASSEMBLY (P59)
J262
J261
VIDEO ASSEMBLY (AWZ3593)
(P61,P62)
J1855
CN1857
J1851
V1 IN
V2 IN
V3 IN
CD
TV/BS
V1 OUT
V2 OUT
MON
CHASSIS GND
S ASSEMBLY (AWZ3087)
(P71,P72)
J1858
J1857
LD
M ON

NNECTION DIAGRAM


A
B
C
D
POWER SUPPLY (REG) ASSEMBLY
J1554
POWER SUPPLY (POWER) ASSEMBLY (AWZ3587)
(P41, P42)
AC POWER CORD
AC 110/120-127 /220/240V 50/60Hz
T2 SUB POWER TRANSFORMER ATT1143
S2 VOLTAGE SELECTOR
110 ~120V
220 ~240V
AC OUTLET SWICHED 100W
S1 VOLTAGE SELECTOR
240V 220V
120-127V
110V
FU1 4A
FU4 3.15A
FU5 3.15A
FU6 3.15A
FU7 3.15A
FU2 4A
C3~C6 0.047 /250
T1 POWER TRANSFORMER ATS1358
C1 12000 56V
C2 12000 56V
CN201
-32V
-27V
WP
AC
AC
+9V
POWER ON
DG
-6V
+5.6
+5.6
PROTECTION
F.RC
C.RC
R.RC
CN202
REM IN
GND
OUT
CN1601
AC
-BF
+BF
DG
-6V
+5.6V
-12V
+12V
+5V
CN351
DCP
ACP
DG
-12V
µ-COM ASSEMBLY (AWZ3817)
(P53, P54)
J203
UP
DOWN
DG
+9V
+5.6V
CM
RM
J204
J205
J202
J201
HEADPHONE ASSEMBLY
CN1532
J1532
FRONT SPEAKER
REAR SPEAKER
CN1531
J1531
F.RY
C.RY
+B
IN
G
OUT
HP ON/OFF
FRONT SP TERM ASSEMBLY (AWZ3092)
(TP615) RG
(TP614) CG
(TP613) LG
(TP612) EG
(TP611) FR
(TP610) FL
CHASSIS GND
CN1
(P27, P28)
J1533
CN1533
J1534
CN1534
REAR SP TERM ASSEMBLY (AWZ3592)
J1535
CN1535
SL OUT
SG
SR OUT
SG
VCM
RY
REAR PREOUT
FRONT PREOUT
CENTER PREOUT
SUPER WOOFER PREOUT
A-INPUT SEL ASSEMBLY (AWZ3590)
(P37-P39)
CN204
J1601
TAPE 1
TAPE 2
REC
PLAY
CHASSIS GND
SUPER CAPA ASSEMBLY (AWZ3589)
(P73, P74)
CN205
CN262
CN1855
CN1858
CN1603
CN1604
J1603
J1604
AV-INPUT SEL ASSEMBLY (AWZ3591)
CN261
J261
TV/BS
VDP
VCR3 PLAY
VCR1
VCR2
IN
OUT
FRONT TERM ASSEMBLY
(P59)
J262
VIDEO ASSEMBLY (AWZ3593)
(P61, P62)
J1855
CN1857
V1 IN
V2 IN
V3 IN
CD
TV/BS
V1 OUT
V2 OUT
MON
CHASSIS GND
J1851
S ASSEMBLY (AWZ3087)
(P71, P72)
J1857
J1858
V1 IN
V2 IN
V3 IN
LD
TV/BS
V1 OUT
V2 OUT
M ON
CN1552
J1552
CN1551
J1551
CN1501
SR IN
S GND
SL IN
J1502
REAR POWER AMP(A) ASSEMBLY
REAR POWER AMP(B) ASSEMBLY
(P25, P26)
606
605
AVG
CHASSIS GND

3.2 FRONT POWER AMP (AWZ3098) AND TEMPERATURE COMPENSATION ASSEMBLY

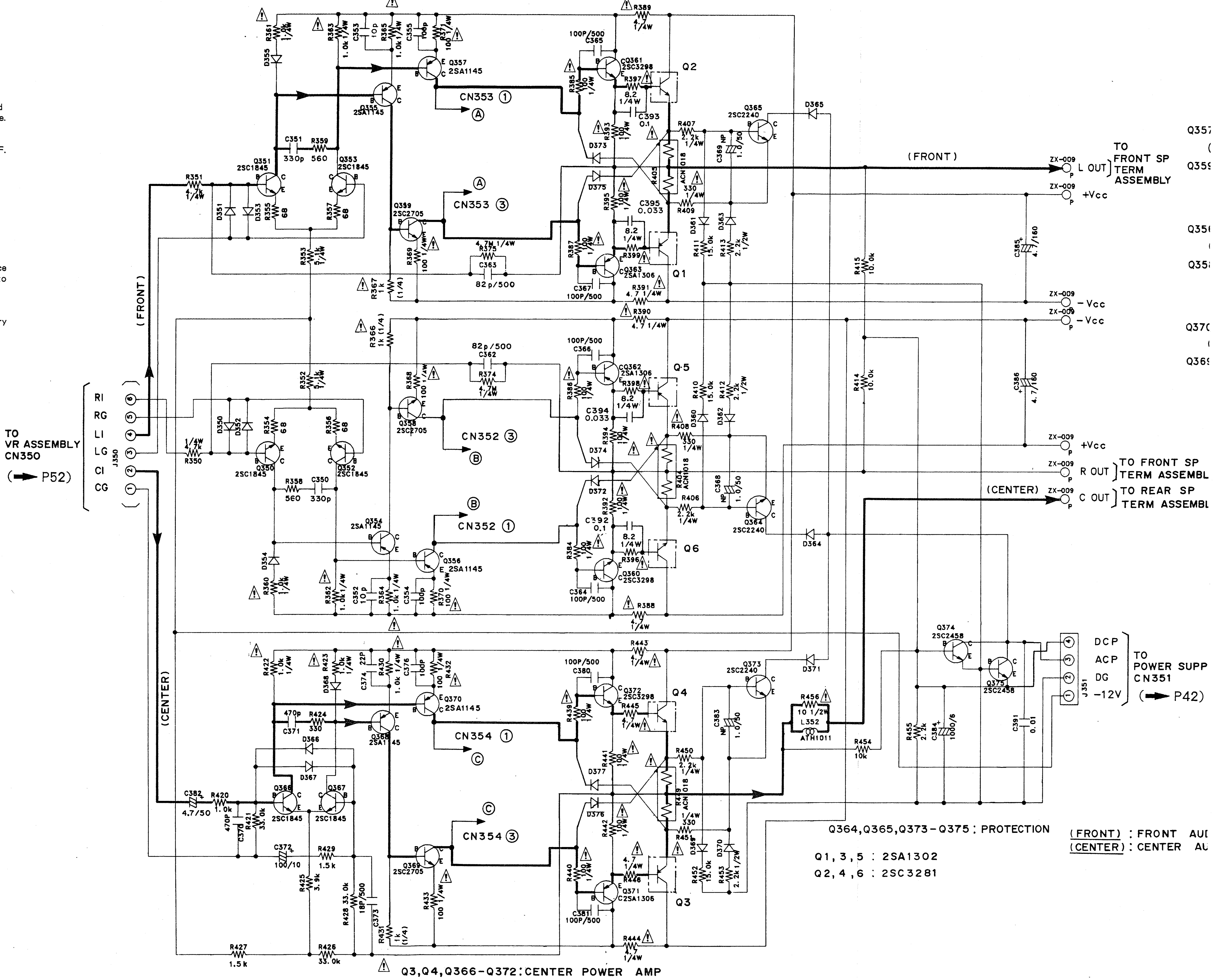
1. RESISTORS :
   Indicated in Ω, 1/4W, 1/8W, ±5% tolerance unless otherwise noted k ; kΩ, M ; MΩ, (F) ; ±1%, (G) ; ±2%, (K) ; ±10%, (M) ; ±20% tolerance.

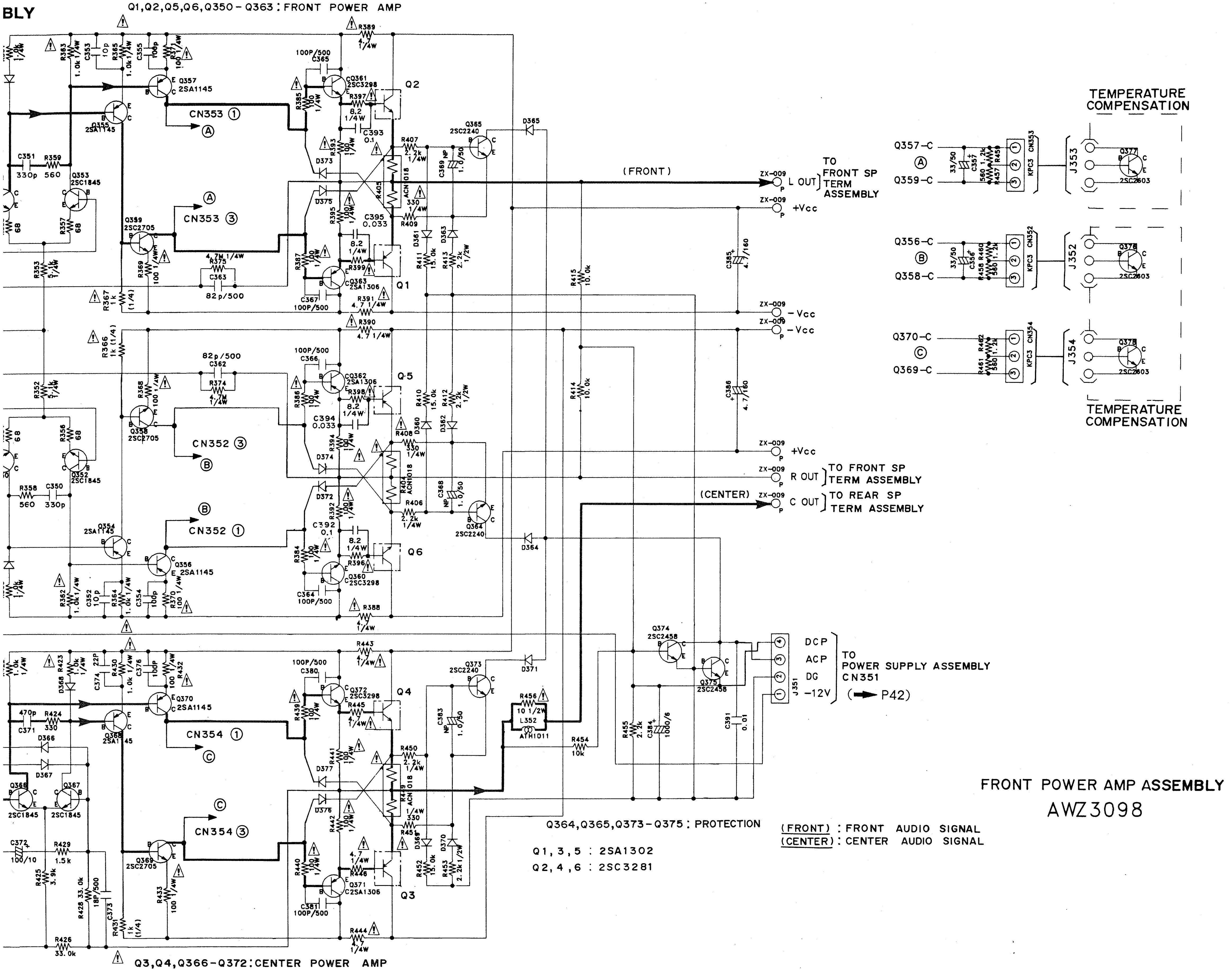
2. CAPACITORS :
   Indicated in capacity (μF) /voltage (V) unless otherwise noted p ; pF. Indication without voltage is 50V except electrolytic capacitor.

3. VOLTAGE CURRENT :
   ▭ ; DC voltage (V) at no input signal.
   ▭ Value in ( ) is DC voltage at rated power.
   ⇐mA or ←mA ; DC current at no input signal unless otherwise noted.

4. OTHERS :
   ➡ ; Signal route.
   ⊘ ; Adjusting point
   The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
   ※ marked capacitors and resistors have parts numbers.

   This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.


Q1,Q2,Q5,Q6,Q350–Q363 : FRONT POWER AMP
Q3,Q4,Q366–Q372 : CENTER POWER AMP
Q364,Q365,Q373–Q375 : PROTECTION
Q1, 3, 5 : 2SA1302
Q2, 4, 6 : 2SC3281
(FRONT) : FRONT AU
(CENTER) : CENTER AU
TO VR ASSEMBLY CN350
(➡ P52)
J350
RI
RG
LI
LG
CI
CG
(FRONT)
(CENTER)
L OUT
TO FRONT SP TERM ASSEMBLY
+Vcc
−Vcc
R OUT
TO FRONT SP TERM ASSEMBL
C OUT
TO REAR SP TERM ASSEMBL
ZX-009
DCP
ACP
DG
−12V
J351
TO POWER SUPP CN351
(➡ P42)
CN353 ①
CN353 ③
CN352 ①
CN352 ③
CN354 ①
CN354 ③
Ⓐ
Ⓑ
Ⓒ
Q351 2SC1845
Q353 2SC1845
Q350 2SC1845
Q352 2SC1845
Q355 2SA1145
Q357 2SA1145
Q354 2SA1145
Q356 2SA1145
Q359 2SC2705
Q358 2SC2705
Q361 2SC3298
Q363 2SA1306
Q362 2SA1306
Q360 2SC3298
Q365 2SC2240
Q364 2SC2240
Q366 2SC1845
Q367 2SC1845
Q368 2SA1145
Q370 2SA1145
Q369 2SC2705
Q372 2SC3298
Q371 2SA1306
Q373 2SC2240
Q374 2SC2458
Q375 2SC2458
Q1
Q2
Q3
Q4
Q5
Q6
L352 ATH1011
R405 ACN1018
R404 ACN1018
R449 ACN1018
C385 4.7/160
C386 4.7/160
C384 1000/6
C391 0.01
C382 4.7/50
C372 100/10
C363 82p/500
C362 82p/500
R375 4.7M 1/4W
R374 4.7M 1/4W
C351 330p
R359 560
C350 330p
R358 560
C371 470p
R424 330
R456 10 1/2W
R454 10k
R415 10.0k
R414 10.0k
R420 1.0k
R421 33.0k
R429 1.5k
R425 3.9k
R428 33.0k
R427 1.5k
R426 33.0k
R351 4.7k 1/4W
R350 4.7k 1/4W
Q357
Q359
Q356
Q355
Q370
Q369



FRONT POWER AMP ASSEMBLY

AWZ3098

Q364,Q365,Q373-Q375 : PROTECTION

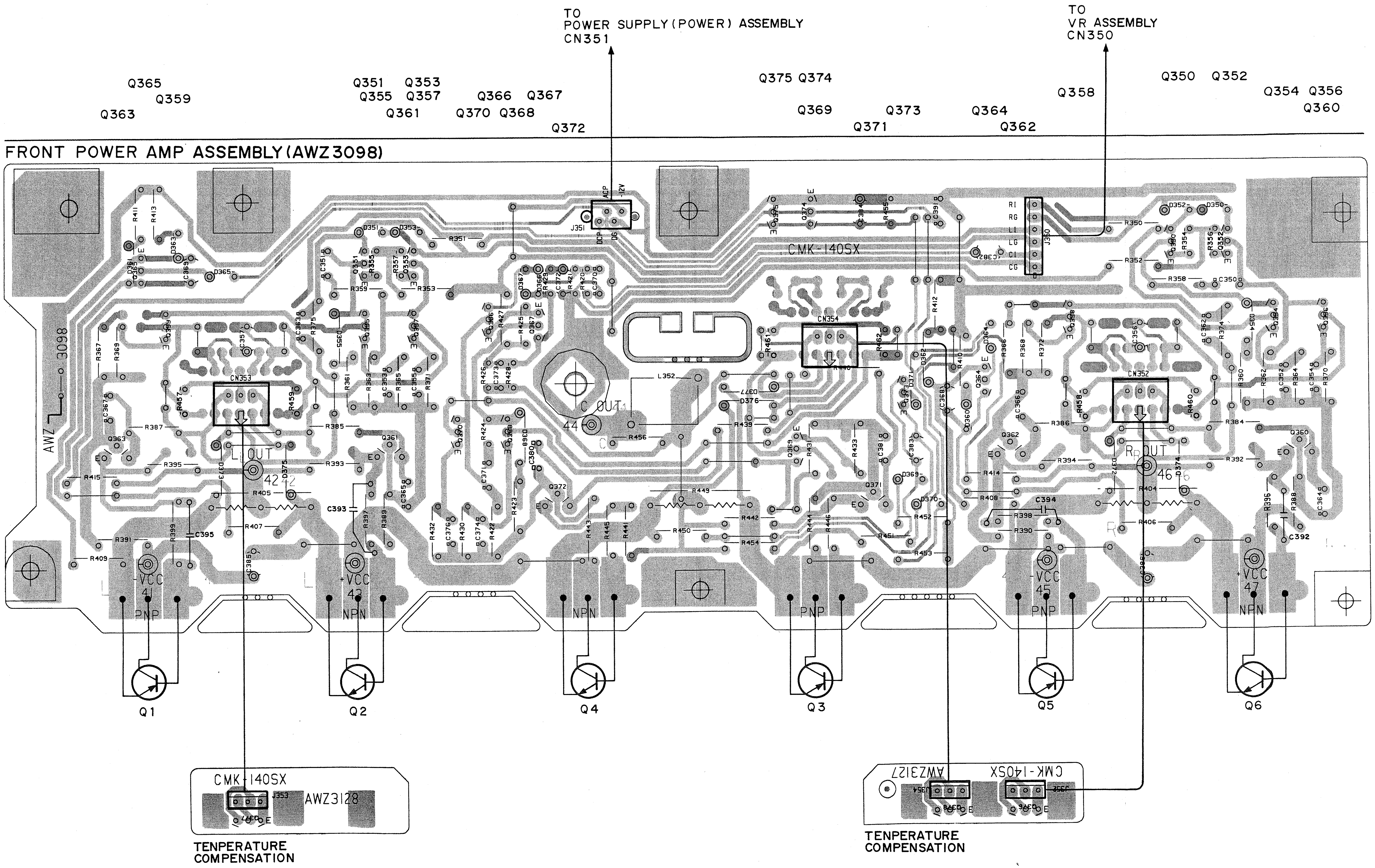
(FRONT) : FRONT AUDIO SIGNAL
(CENTER) : CENTER AUDIO SIGNAL

Q1,3,5 : 2SA1302
Q2,4,6 : 2SC3281

4
5
6
7
8
9
A
B
C
D
BLY
Q1,Q2,Q5,Q6,Q350-Q363 : FRONT POWER AMP
Q3,Q4,Q366-Q372 : CENTER POWER AMP
CN353 ①
CN353 ③
CN352 ③
CN352 ①
CN354 ①
CN354 ③
Ⓐ
Ⓑ
Ⓒ
Q357 2SA1145
Q355 2SA1145
Q353 2SC1845
Q359 2SC2705
Q358 2SC2705
Q352 2SC1845
Q354 2SA1145
Q356 2SA1145
Q361 2SC3298
Q363 2SA1306
Q362 2SA1306
Q360 2SC3298
Q365 2SC2240
Q364 2SC2240
Q370 2SA1145
Q368 2SA1145
Q366 2SC1845
Q367 2SC1845
Q369 2SC2705
Q372 2SC3298
Q371 2SA1306
Q373 2SC2240
Q374 2SC2458
Q375 2SC2458
Q1
Q2
Q3
Q4
Q5
Q6
(FRONT)
(CENTER)
ZX-009
L OUT
R OUT
C OUT
+Vcc
-Vcc
TO FRONT SP TERM ASSEMBLY
TO REAR SP TERM ASSEMBLY
DCP
ACP
DG
-12V
TO POWER SUPPLY ASSEMBLY CN351
(➡ P42)
J351
L352
ATH1011
R456 10 1/2W
R454 10k
R455 2.2k
C384 1000/6
C391 0.01
R415 10.0k
R414 10.0k
C385 4.7/160
C386 4.7/160
R405 ACN1018
R404 ACN1018
R449 ACN1018
TEMPERATURE COMPENSATION
Q357-C
Q359-C
Q356-C
Q358-C
Q370-C
Q369-C
CN353
CN352
CN354
KPC3
J353
J352
J354
Q377 2SC2603
Q378 2SC2603
Q379 2SC2603
33/50
C357
C356
R457 R458 R459 R460 R461 R462
560
1.2k

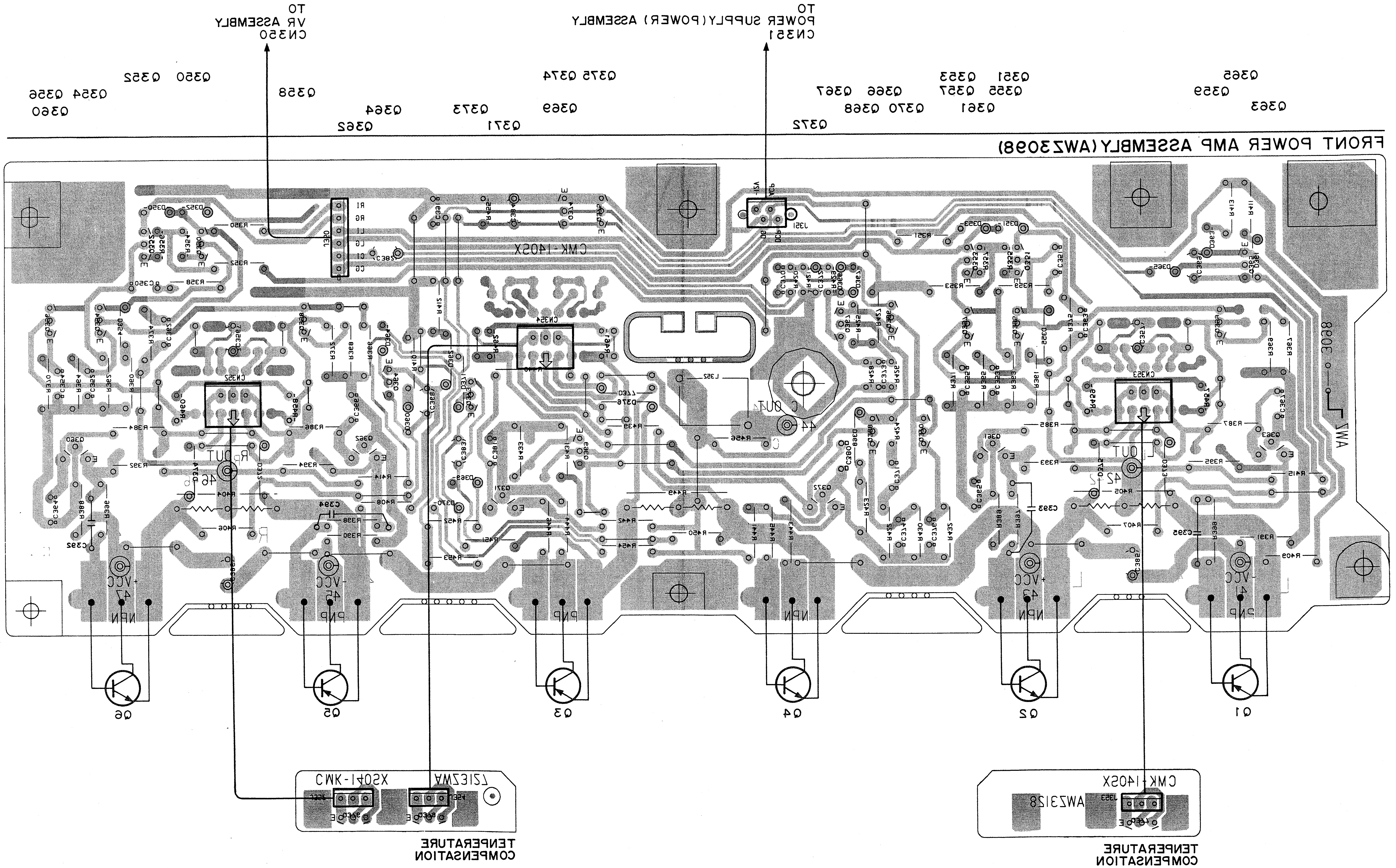
3.2 FRONT POWER AMP (AWZ3098) AND TEMPERATURE COMPENSATION ASSEMBLY

- View from component side


TO
POWER SUPPLY (POWER) ASSEMBLY
CN351
TO
VR ASSEMBLY
CN350
Q365 Q359 Q363
Q351 Q353 Q355 Q357 Q361
Q366 Q367 Q370 Q368 Q372
Q375 Q374 Q369 Q373 Q371
Q364 Q362 Q358
Q350 Q352 Q354 Q356 Q360
FRONT POWER AMP ASSEMBLY (AWZ3098)
CMK-140SX
J351
J350
CN353
CN354
CN352
L OUT 42
C OUT 44
R OUT 46
L352
-VCC 41
+VCC 43
-VCC 45
+VCC 47
PNP
NPN
NPN
PNP
PNP
NPN
Q1
Q2
Q4
Q3
Q5
Q6
CMK-140SX
J353
AWZ3128
TENPERATURE
COMPENSATION
AWZ3127
CMK-140SX
J354
J352
TENPERATURE
COMPENSATION

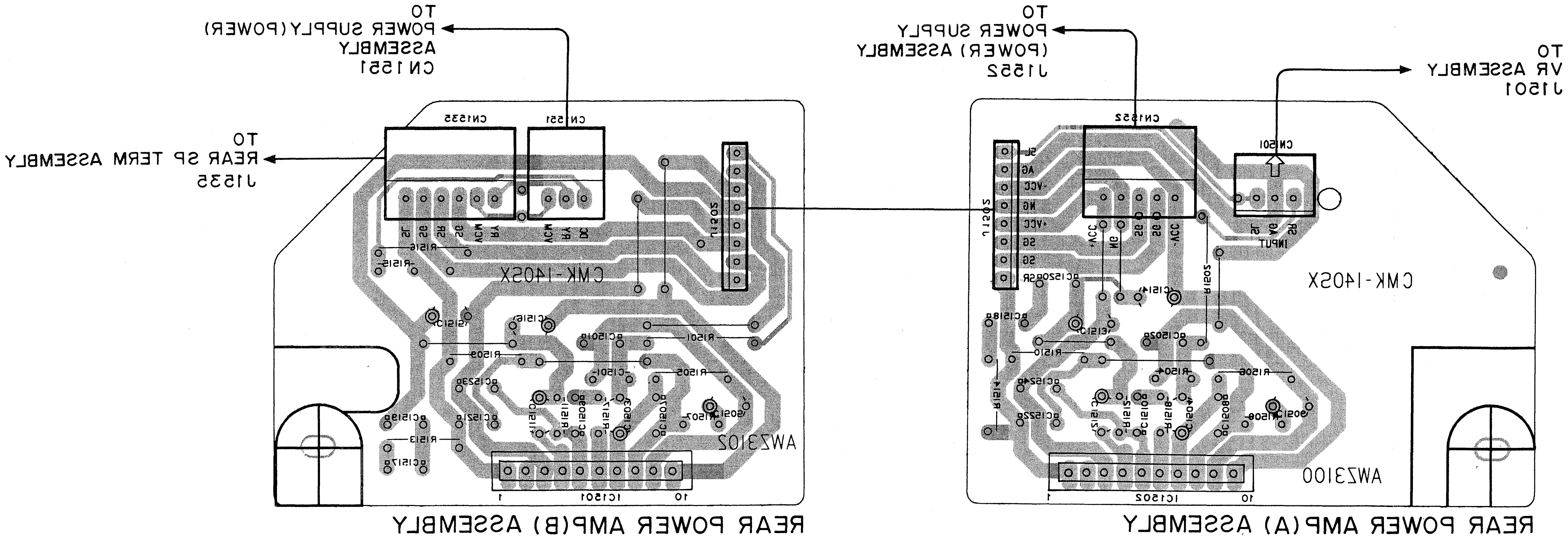
3.2 FRONT POWER AMP (AWZ3098) AND TEMPERATURE COMPENSATION ASSEMBLY

- View from soldering side

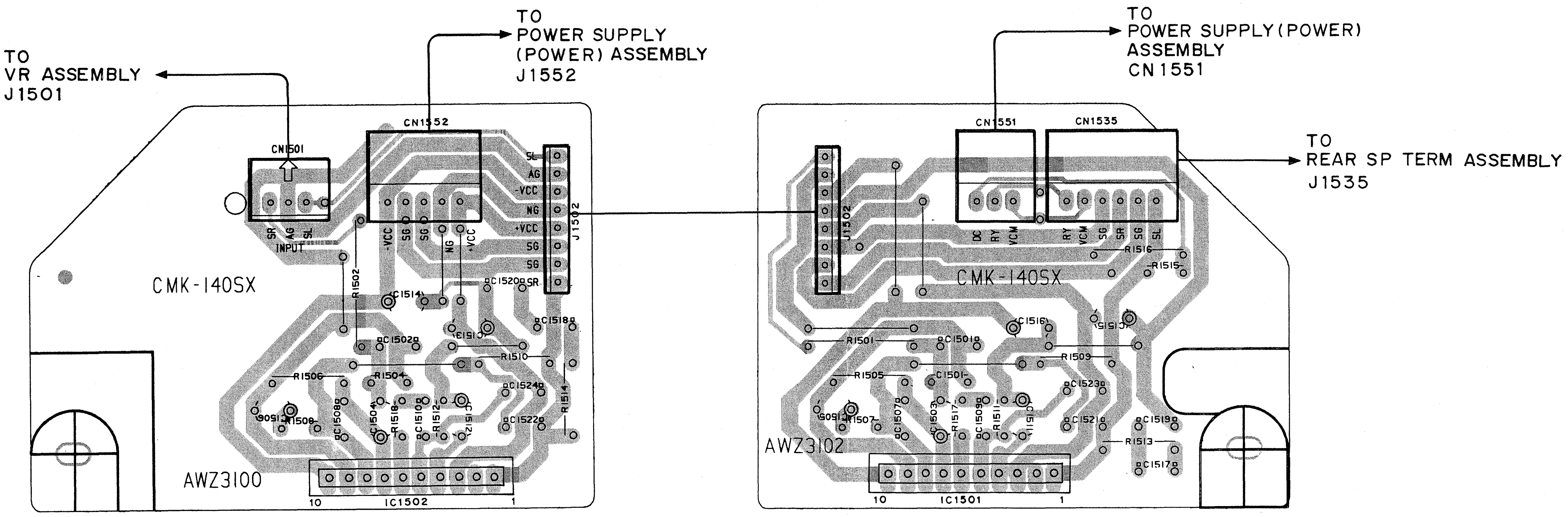

TO
VR ASSEMBLY
CN350
TO
POWER SUPPLY(POWER) ASSEMBLY
CN351
Q365
Q359
Q363
Q351 Q353
Q355 Q357
Q361
Q372
Q367 Q366
Q370 Q368
Q375 Q374
Q369
Q371
Q373
Q364
Q362
Q358
Q350 Q352
Q354 Q356
Q360
FRONT POWER AMP ASSEMBLY(AWZ3098)
CMK-1405X
CN352
CN353
CN354
L OUT
R OUT
C OUT
VCC
NPN
PNP
Q1
Q2
Q3
Q4
Q5
Q6
CMK-1405X
AWZ3127
AWZ3128
TEMPERATURE
COMPENSATION
TEMPERATURE
COMPENSATION

3.3 REAR POWER AMP (A) AND REAR POWER AMP (B) ASSEMBLY

- View from soldering side


TO
POWER SUPPLY(POWER)
ASSEMBLY
CN1551
TO
REAR SP TERM ASSEMBLY
J1535
CN1535
CN1551
J1502
CMK-1405X
AW23102
IC1501
REAR POWER AMP(B) ASSEMBLY
TO
POWER SUPPLY
(POWER) ASSEMBLY
J1552
TO
VR ASSEMBLY
J1501
CN1552
CN1501
INPUT
J1502
CMK-1405X
AW23100
IC1502
REAR POWER AMP(A) ASSEMBLY

3.3 REAR POWER AMP (A) AND REAR POWER AMP (B) ASSEMBLY

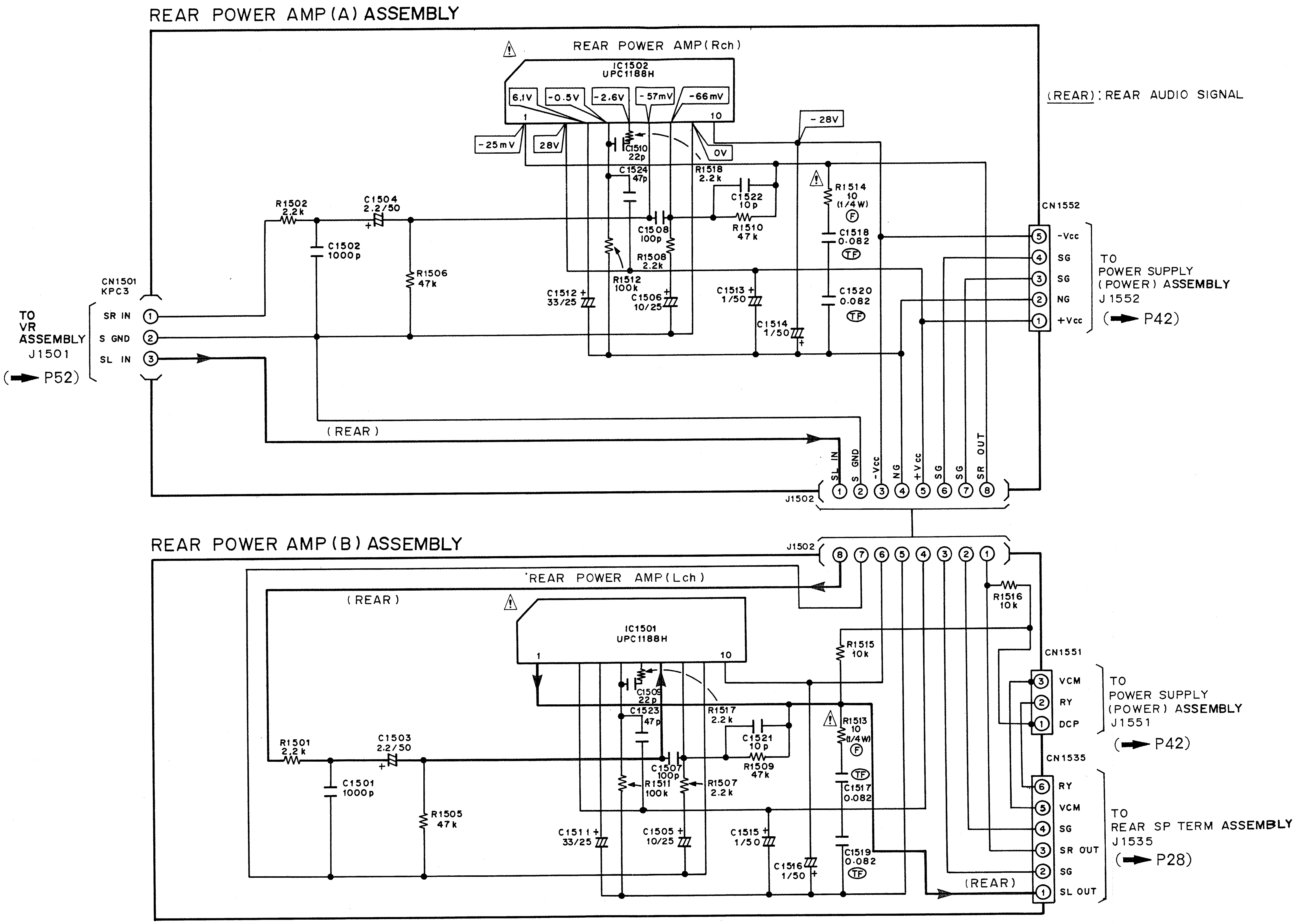

TO
VR ASSEMBLY
J1501
TO
POWER SUPPLY
(POWER) ASSEMBLY
J1552
TO
POWER SUPPLY (POWER)
ASSEMBLY
CN1551
TO
REAR SP TERM ASSEMBLY
J1535
CN1501
SR
AG
SL
INPUT
CN1552
-VCC
SG
SG
NG
+VCC
SL
AG
-VCC
NG
+VCC
SG
SG
SR
J1502
CMK-140SX
R1502
C1514
C1520
C1518
C1502
C1513
R1510
R1506
R1504
C1524
C1506
R1508
C1508
C1504
R1518
C1510
R1512
C1512
C1522
R1514
AWZ3100
10
IC1502
1
CN1551
CN1535
DC
RY
VCM
RY
VCM
SG
SR
SG
SL
R1516
R1515
C1516
C1515
R1501
C1501
R1509
R1505
C1501
C1523
C1505
R1507
C1507
C1503
R1517
C1509
R1511
C1511
C1521
C1519
R1513
C1517
AWZ3102
10
IC1501
1

REAR POWER AMP (A) ASSEMBLY

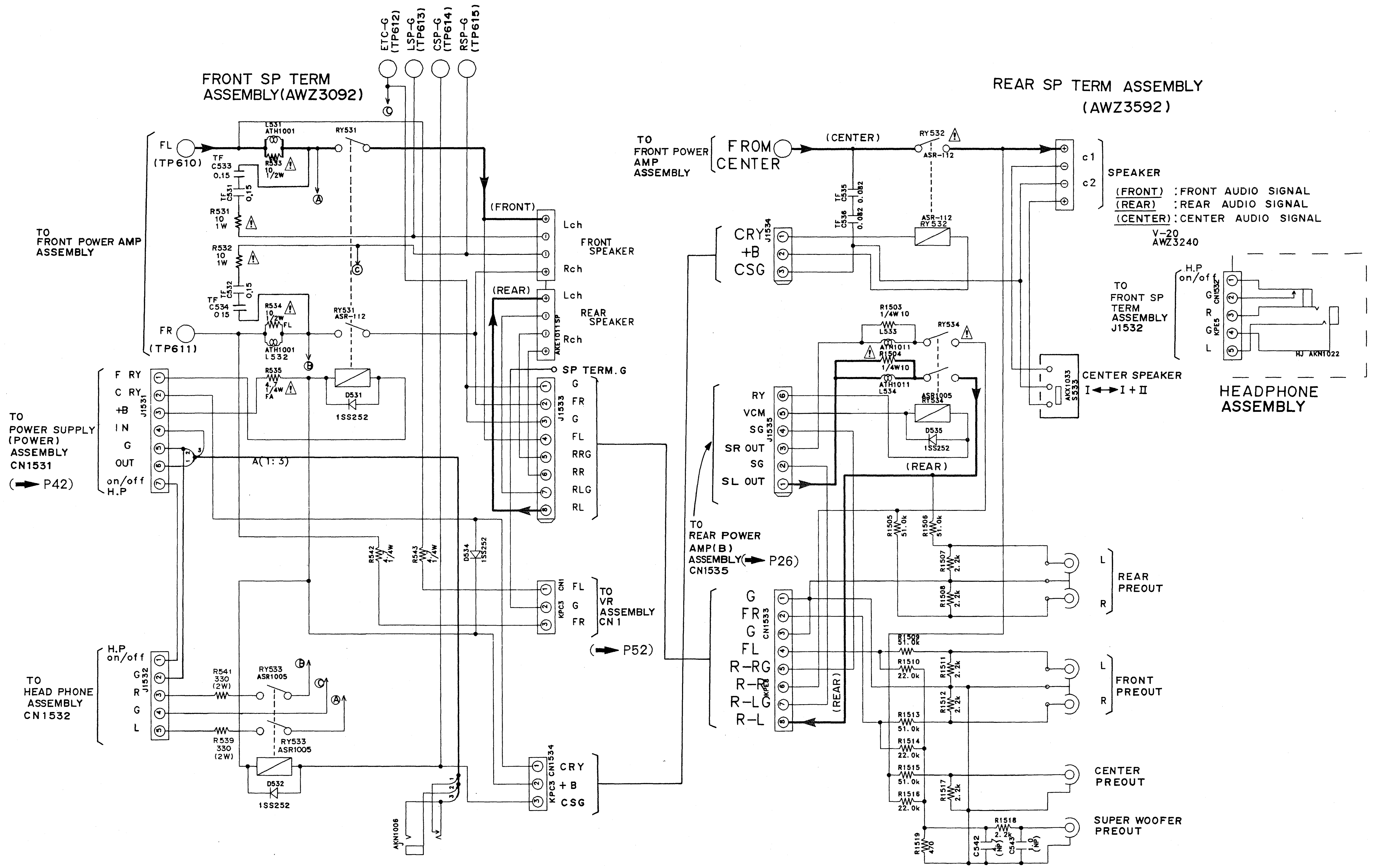
REAR POWER AMP (B) ASSEMBLY

3.3 REAR POWER AMP (A) AND REAR POWER AMP (B) ASSEMBLY

- View from component side

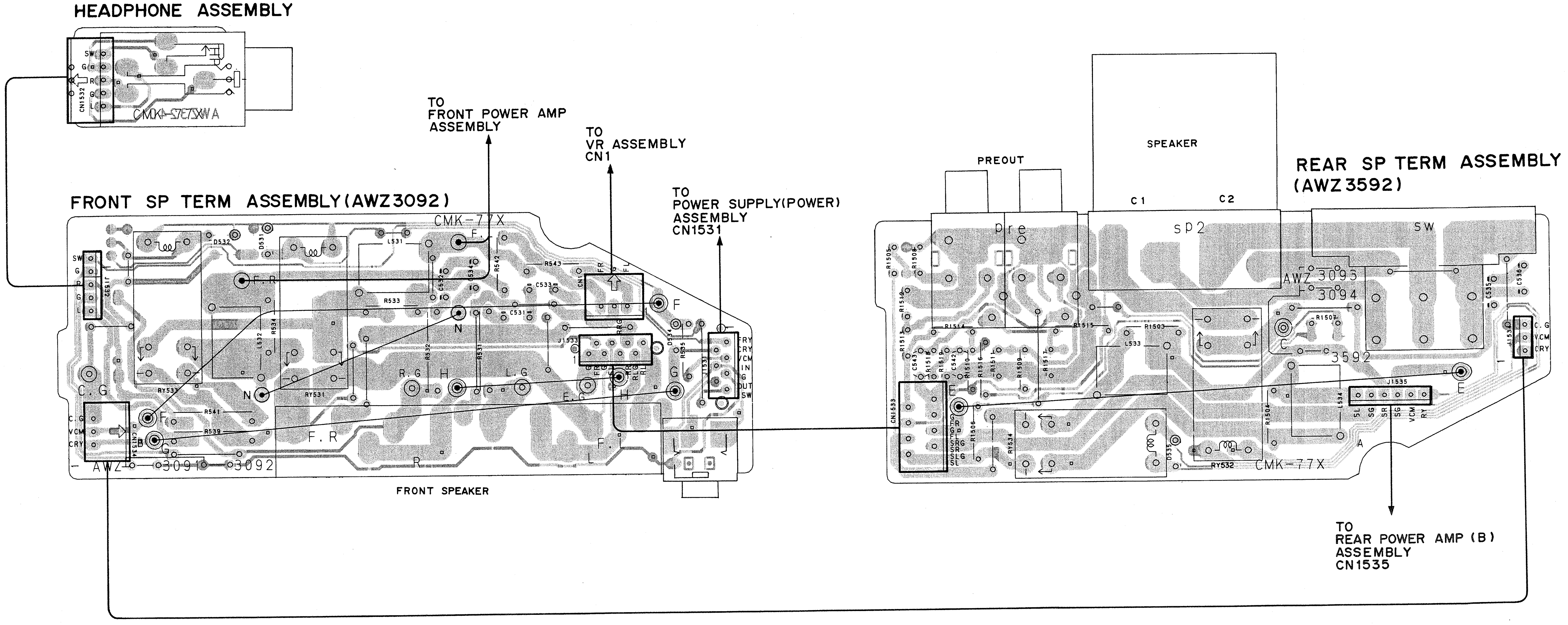

REAR POWER AMP (A) ASSEMBLY
REAR POWER AMP (Rch)
IC1502
UPC1188H
6.1V
-0.5V
-2.6V
-57mV
-66mV
-25mV
28V
0V
-28V
1
10
(REAR) : REAR AUDIO SIGNAL
C1510
22p
C1524
47p
R1518
2.2k
C1522
10p
R1514
10
(1/4W)
F
C1518
0.082
TF
R1502
2.2k
C1504
2.2/50
C1502
1000p
R1506
47k
C1508
100p
R1510
47k
R1508
2.2k
R1512
100k
C1506
10/25
C1512
33/25
C1513
1/50
C1514
1/50
C1520
0.082
TF
CN1552
-Vcc
SG
SG
NG
+Vcc
TO
POWER SUPPLY
(POWER) ASSEMBLY
J1552
(➡ P42)
CN1501
KPC3
TO
VR
ASSEMBLY
J1501
(➡ P52)
SR IN
S GND
SL IN
(REAR)
SL IN
S GND
-Vcc
NG
+Vcc
SG
SG
SR OUT
J1502
REAR POWER AMP (B) ASSEMBLY
J1502
REAR POWER AMP (Lch)
(REAR)
IC1501
UPC1188H
1
10
R1516
10k
R1515
10k
CN1551
VCM
RY
DCP
TO
POWER SUPPLY
(POWER) ASSEMBLY
J1551
(➡ P42)
C1509
22p
C1523
47p
R1517
2.2k
C1521
10p
R1513
10
(1/4W)
F
R1501
2.2k
C1503
2.2/50
C1501
1000p
C1507
100p
R1511
100k
R1507
2.2k
R1509
47k
C1517
0.082
TF
R1505
47k
C1511
33/25
C1505
10/25
C1515
1/50
C1516
1/50
C1519
0.082
TF
CN1535
RY
VCM
SG
SR OUT
SG
SL OUT
(REAR)
TO
REAR SP TERM ASSEMBLY
J1535
(➡ P28)

3.4 FRONT SP TERM (AWZ3092) , REAR SP TERM (AWZ3592) AND HEADPHONE ASSEMBLY


ETC-G (TP612)
LSP-G (TP613)
CSP-G (TP614)
RSP-G (TP615)
FRONT SP TERM ASSEMBLY(AWZ3092)
FL (TP610)
FR (TP611)
L531 ATH1001
R533 10 1/2W
TF C533 0.15
TF C531 0.15
R531 10 1W
R532 10 1W
TF C532 0.15
TF C534 0.15
R534 10 1/2W
ATH1001 L532
R535 4.7 1/4W FA
RY531
RY531 ASR-112
D531 1SS252
(FRONT)
Lch
FRONT SPEAKER
Rch
(REAR)
Lch
REAR SPEAKER
Rch
AKE1011 SP
SP TERM.G
J1533
G
FR
G
FL
RRG
RR
RLG
RL
TO FRONT POWER AMP ASSEMBLY
TO POWER SUPPLY (POWER) ASSEMBLY CN1531
(➡ P42)
F RY
C RY
+B
IN
G
OUT
on/off H.P
J1531
A(1:3)
R542 4.7 1/4W
R543 4.7 1/4W
D534 1SS252
CN1 KPC3
FL
G
FR
TO VR ASSEMBLY CN1
(➡ P52)
TO HEAD PHONE ASSEMBLY CN1532
H.P on/off
G
R
G
L
J1532
R541 330 (2W)
RY533 ASR1005
R539 330 (2W)
RY533 ASR1005
D532 1SS252
AKN1006
CN1534 KPC3
CRY
+B
CSG
REAR SP TERM ASSEMBLY (AWZ3592)
TO FRONT POWER AMP ASSEMBLY
FROM CENTER
(CENTER)
RY532
ASR-112
TF C535 0.082
TF C536 0.082
ASR-112 RY532
J1534
CRY
+B
CSG
c1
c2
SPEAKER
(FRONT) : FRONT AUDIO SIGNAL
(REAR) : REAR AUDIO SIGNAL
(CENTER) : CENTER AUDIO SIGNAL
V-20 AWZ3240
TO FRONT SP TERM ASSEMBLY J1532
H.P on/off
G
R
G
L
CN1532 KPE5
HJ AKN1022
HEADPHONE ASSEMBLY
CENTER SPEAKER
I⟷I+II
AKX1033 S533
R1503 1/4W 10
L533
ATH1011
R1504 1/4W10
ATH1011 L534
RY534
ASR1005 RY534
D535 1SS252
J1535
RY
VCM
SG
SR OUT
SG
SL OUT
(REAR)
TO REAR POWER AMP(B) ASSEMBLY CN1535
(➡ P26)
R1505 51.0k
R1506 51.0k
R1507 2.2k
R1508 2.2k
L
R
REAR PREOUT
CN1533 KPE8
G
FR
G
FL
R-RG
R-R
R-LG
R-L
(REAR)
R1509 51.0k
R1510 22.0k
R1511 2.2k
R1512 2.2k
L
R
FRONT PREOUT
R1513 51.0k
R1514 22.0k
R1515 51.0k
R1516 22.0k
R1517 2.2k
CENTER PREOUT
R1518 2.2k
R1519 470
C542
C543
SUPER WOOFER PREOUT

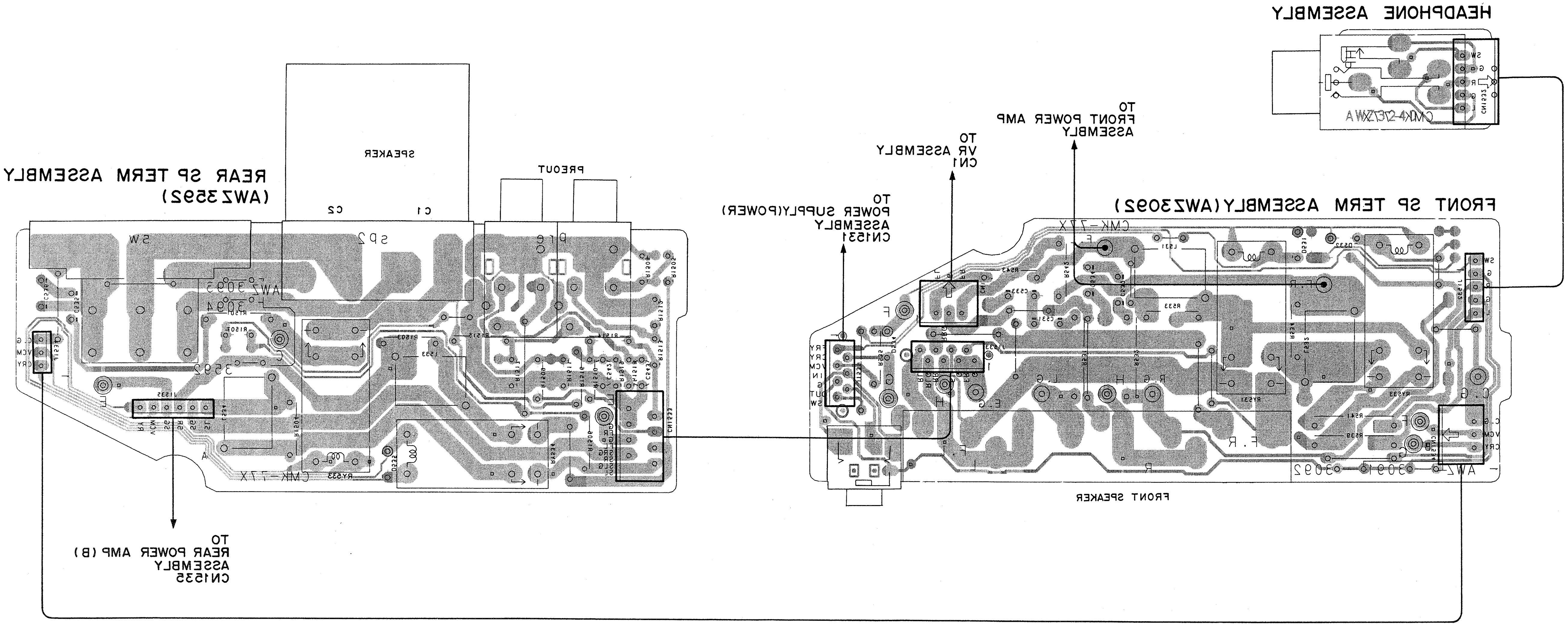
3.4 FRONT SP TERM (AWZ3092) , REAR SP TERM (AWZ3592) AND HEADPHONE ASSEMBLY

- View from component side


HEADPHONE ASSEMBLY
CN1532
SW
G
R
G
L
CMK-57Z5WA
TO
FRONT POWER AMP
ASSEMBLY
TO
VR ASSEMBLY
CN1
TO
POWER SUPPLY(POWER)
ASSEMBLY
CN1531
FRONT SP TERM ASSEMBLY(AWZ3092)
CMK-77X
J1532
CN1534
C.G
VCM
CRY
D532
D531
L531
R543
R542
R533
C533
C531
J1533
RY531
RY533
R541
R539
F.R
F.L
F
N
R.G
H
L.G
F.G
G
E
FRY
CRY
VCM
IN
G
OUT
SW
AWZ 3091 3092
FRONT SPEAKER
PREOUT
pre
SPEAKER
C1
C2
sp2
SW
REAR SP TERM ASSEMBLY
(AWZ3592)
AWZ 3093
3094
3592
CN1533
J1535
SL
SG
SR
SG
VCM
RY
J1536
C.G
VCM
CRY
R1507
R1503
R1514
R1515
L533
L534
RY534
RY532
CMK-77X
TO
REAR POWER AMP (B)
ASSEMBLY
CN1535

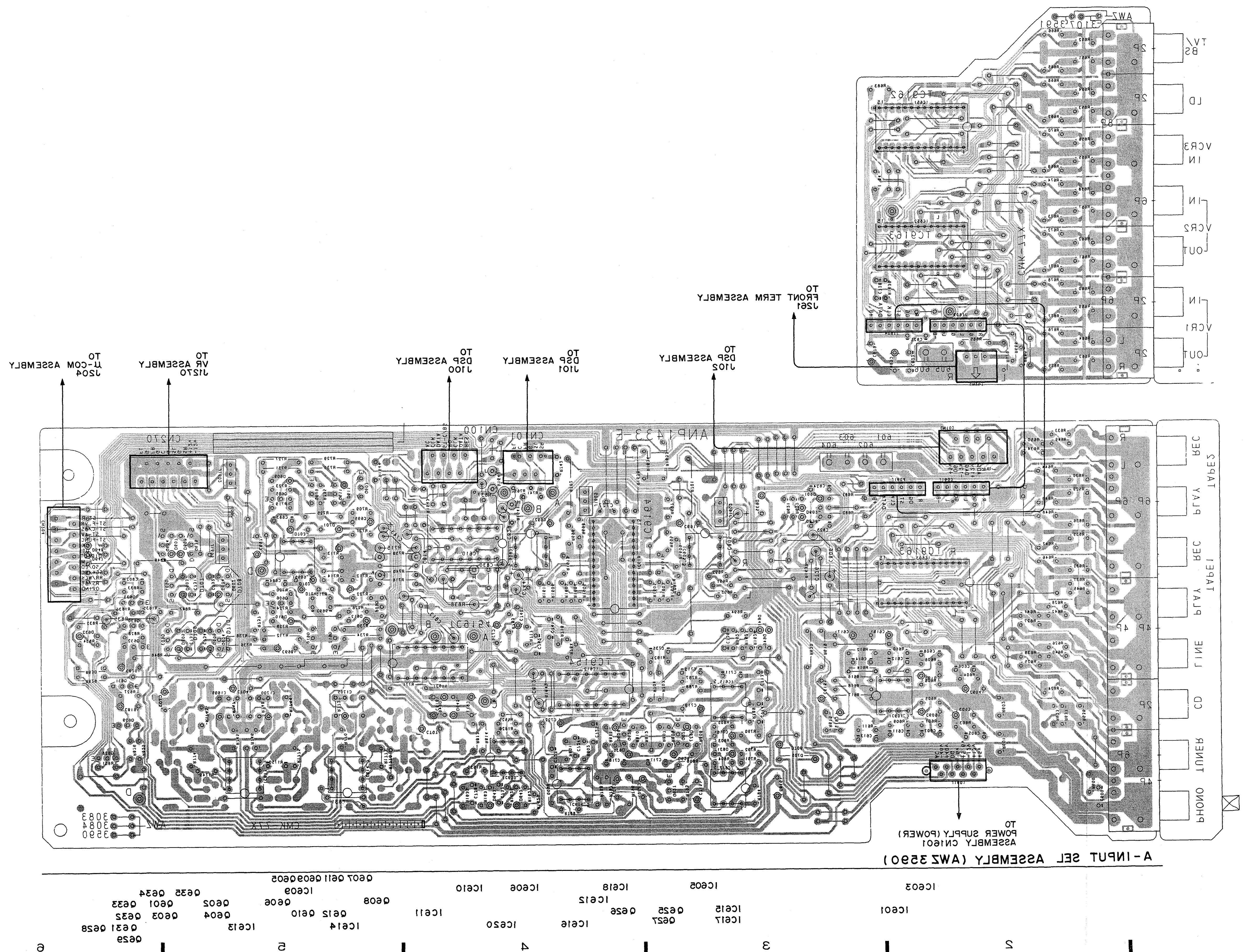
3.4 FRONT SP TERM (AWZ3092), REAR SP TERM (AWZ3592) AND HEADPHONE ASSEMBLY

- View from soldering side


HEADPHONE ASSEMBLY
AWZ3?2-4 CMK-?
TO FRONT POWER AMP ASSEMBLY
TO VR ASSEMBLY CN1
TO POWER SUPPLY(POWER) ASSEMBLY CN1531
FRONT SP TERM ASSEMBLY(AWZ3092)
REAR SP TERM ASSEMBLY (AWZ3592)
SPEAKER
PREOUT
C2
C1
SP2
SW
AWZ3093
3094
3592
CMK-77X
AWZ-3091-3092
F.R
E.G
FRONT SPEAKER
TO REAR POWER AMP (B) ASSEMBLY CN1535

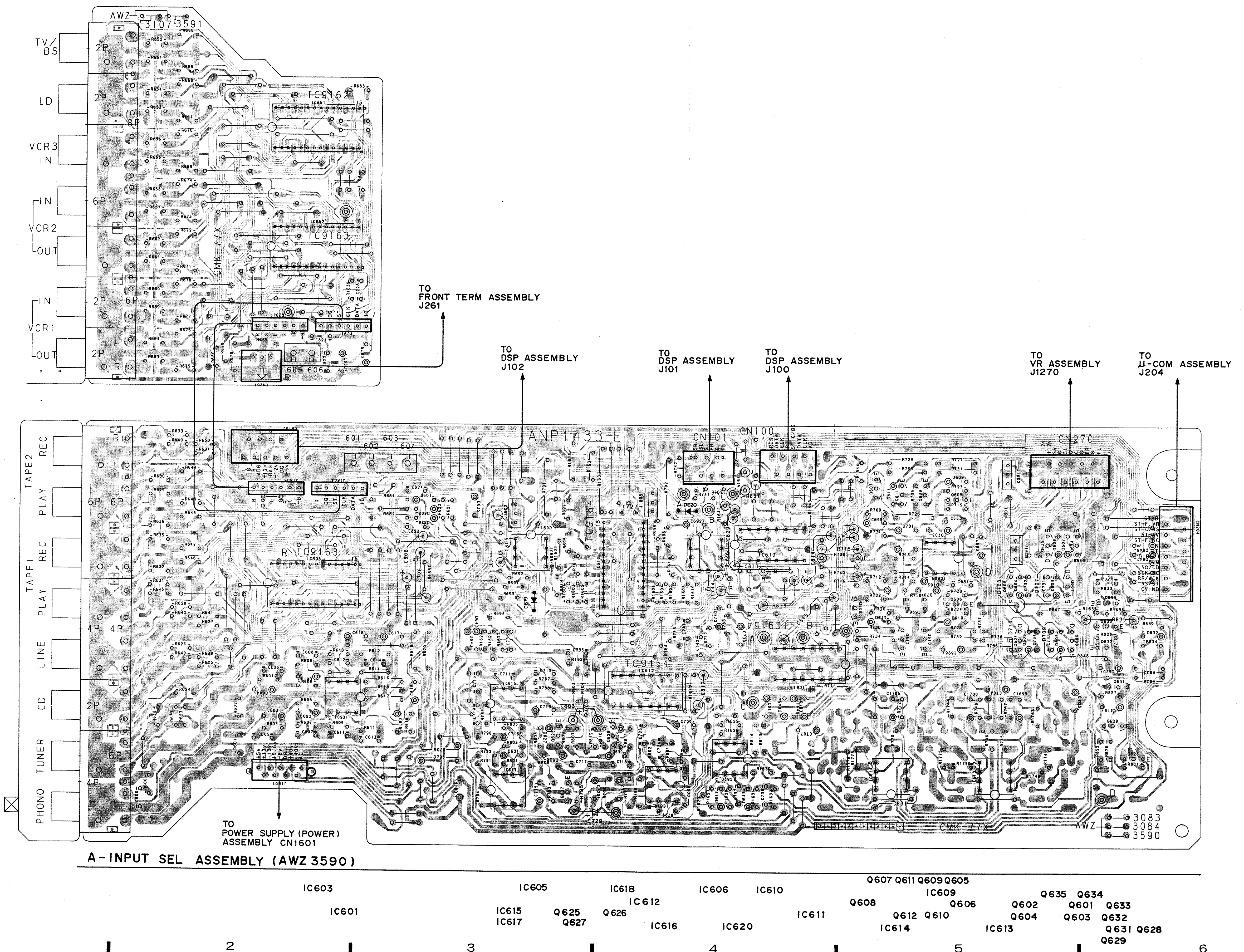
3.5 A-INPUT SEL (AWZ3590) AND AV-INPUT SEL (AWZ3591) ASSEMBLY

- View from soldering side

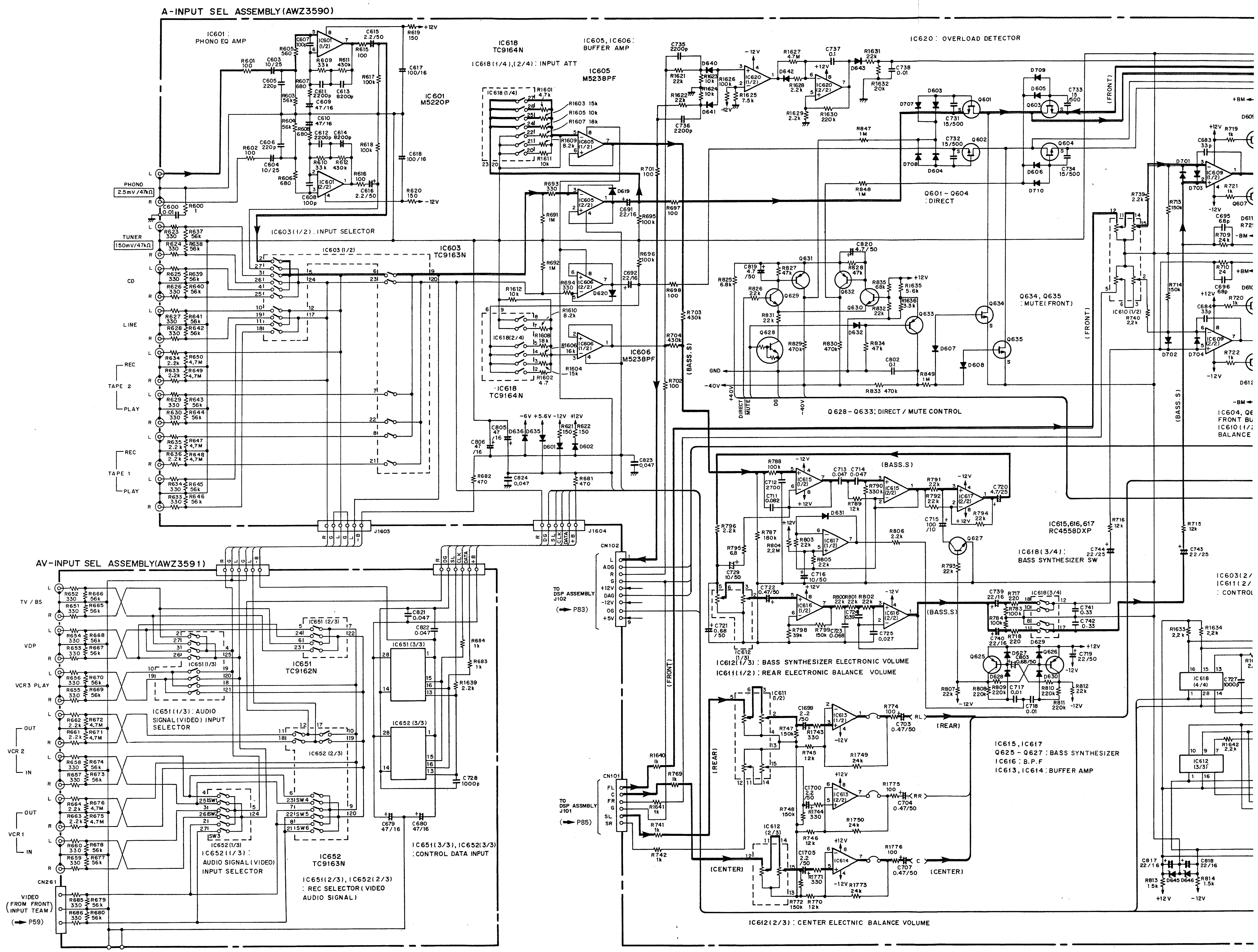

AV-INPUT SEL ASSEMBLY (AWZ3591)
TV/BS
LD
VCR3 IN
IN VCR2 OUT
IN VCR1 OUT
TO FRONT TERM ASSEMBLY J261
TO μ-COM ASSEMBLY J204
TO VR ASSEMBLY J1270
TO DSP ASSEMBLY J100
TO DSP ASSEMBLY J101
TO DSP ASSEMBLY J102
TAPE2 REC
TAPE2 PLAY
TAPE1 REC
TAPE1 PLAY
LINE
CD
TUNER
PHONO
TO POWER SUPPLY (POWER) ASSEMBLY CN1601
A-INPUT SEL ASSEMBLY (AWZ3590)
IC603
IC601
IC605
IC615
IC617
Q625
Q627
Q626
IC612
IC618
IC616
IC606
IC620
IC610
IC611
Q607 Q611 Q609 Q605
IC609
Q608
Q612 Q610
IC614
Q606
Q602
Q604
IC613
Q635 Q634
Q601 Q633
Q603 Q632
Q631 Q628
Q629

3.5 A-INPUT SEL (AWZ3590) AND AV-INPUT SEL (AWZ3591) ASSEMBLY

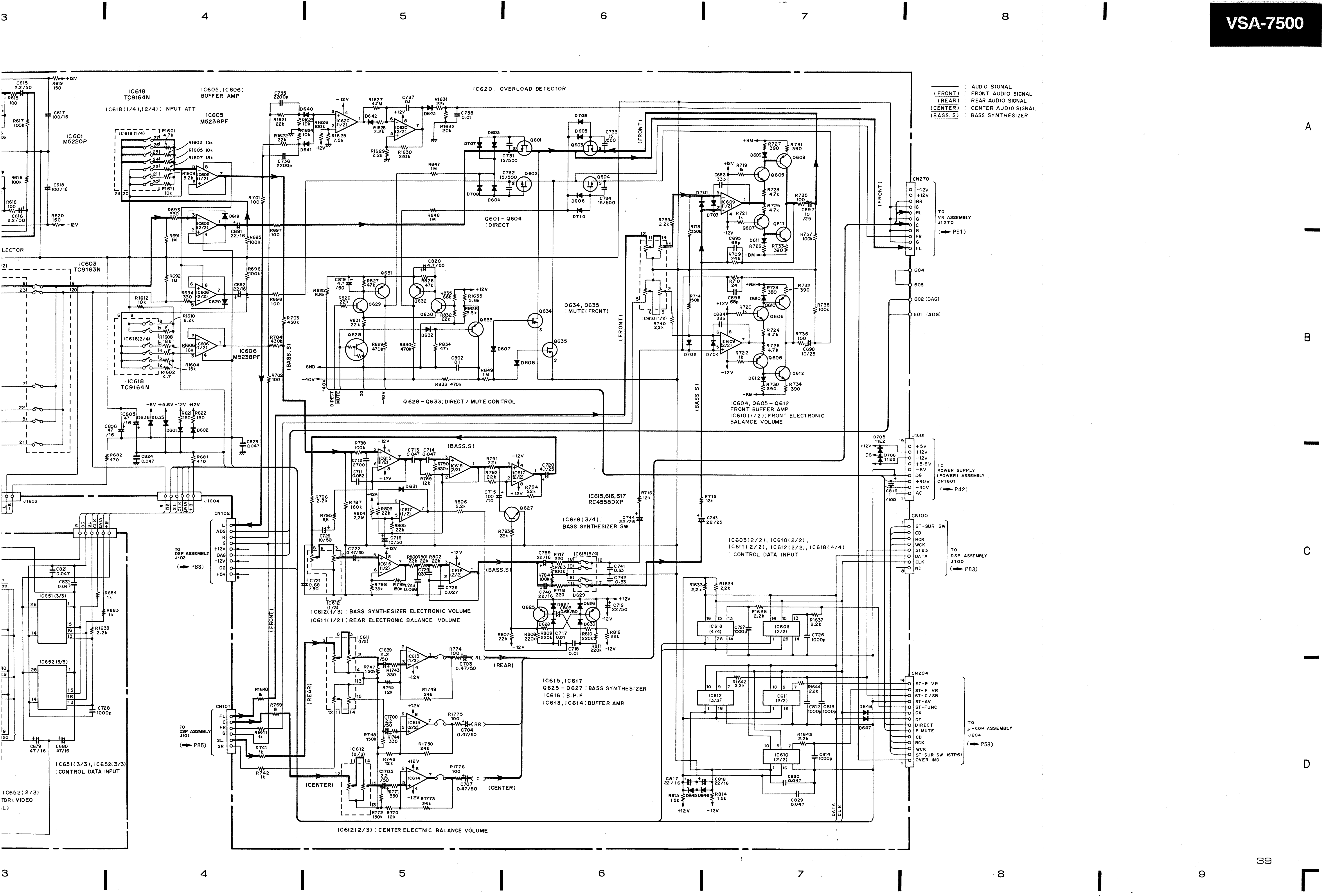
- View from component side


AV- INPUT SEL ASSEMBLY (AWZ3591)
AWZ-3107 3591
TV/ BS
LD
VCR3 IN
IN
VCR2
OUT
IN
VCR1
OUT
TC9162
TC9163
CMK-77X
605 606
TO FRONT TERM ASSEMBLY J261
TO DSP ASSEMBLY J102
TO DSP ASSEMBLY J101
TO DSP ASSEMBLY J100
TO VR ASSEMBLY J1270
TO µ-COM ASSEMBLY J204
ANP1433-E
CN101
CN100
CN270
601 603
602 604
TAPE2 REC
PLAY
TAPE1 REC
PLAY
LINE
CD
TUNER
PHONO
TC9163
TC9164
TC9154
TC9154
CMK-77X
AWZ-3083 3084 3590
TO POWER SUPPLY (POWER) ASSEMBLY CN1601
A-INPUT SEL ASSEMBLY (AWZ 3590)
IC603
IC601
IC605
IC615
IC617
Q625
Q627
IC618
Q626
IC612
IC616
IC606
IC620
IC610
IC611
Q607 Q611 Q609 Q605
Q608
IC609
Q612 Q610
Q606
IC614
IC613
Q602
Q604
Q635 Q634
Q601 Q633
Q603 Q632
Q631 Q628
Q629

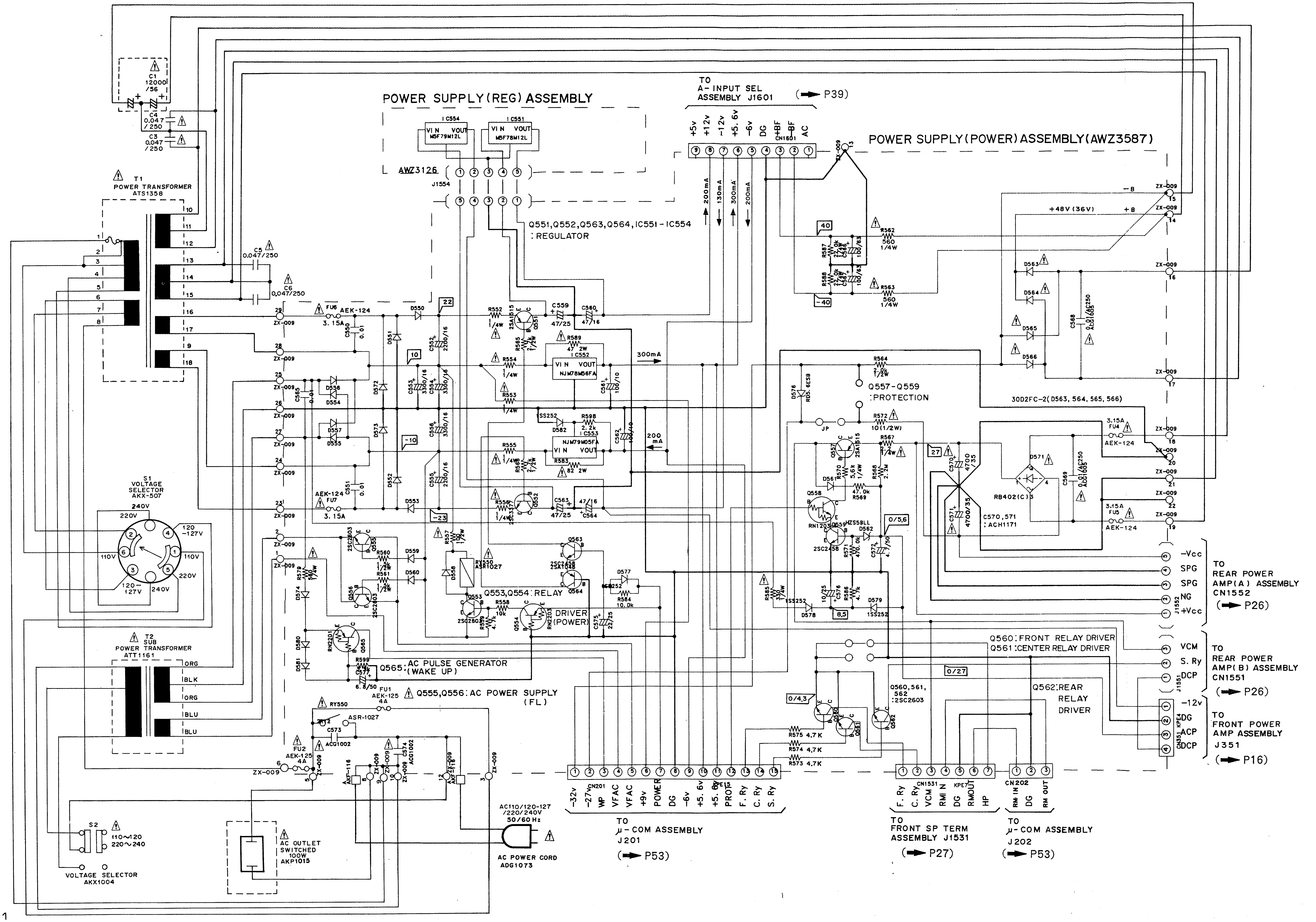
3.5 A-INPUT SEL (AWZ3590) AND AV-INPUT SEL (AWZ3591) ASSEMBLY



A-INPUT SEL ASSEMBLY (AWZ3590)
IC601 : PHONO EQ AMP
IC601 M5220P
IC618 TC9164N
IC618(1/4),(2/4) : INPUT ATT
IC605, IC606 : BUFFER AMP
IC605 M5238PF
IC620 : OVERLOAD DETECTOR
PHONO 2.5mV/47kΩ
TUNER 150mV/47kΩ
CD
LINE
TAPE 2 REC PLAY
TAPE 1 REC PLAY
IC603(1/2) : INPUT SELECTOR
IC603 TC9163N
IC606 M5238PF
Q601 - Q604 : DIRECT
Q634, Q635 : MUTE (FRONT)
Q628 - Q633 : DIRECT / MUTE CONTROL
(FRONT)
(BASS.S)
(REAR)
(CENTER)
J1603
J1604
CN102
TO DSP ASSEMBLY J102 (➡ P83)
CN101
TO DSP ASSEMBLY J101 (➡ P85)
IC615, 616, 617 RC4558DXP
IC618(3/4) : BASS SYNTHESIZER SW
IC612(1/3) : BASS SYNTHESIZER ELECTRONIC VOLUME
IC611(1/2) : REAR ELECTRONIC BALANCE VOLUME
IC615, IC617
Q625 - Q627 : BASS SYNTHESIZER
IC616 : B.P.F
IC613, IC614 : BUFFER AMP
IC612(2/3) : CENTER ELECTNIC BALANCE VOLUME
IC604, IC6
FRONT BU
IC610(1/
BALANCE
IC603(2/
IC611(2/
: CONTROL
AV-INPUT SEL ASSEMBLY (AWZ3591)
TV / BS
VDP
VCR3 PLAY
VCR 2 OUT IN
VCR 1 OUT IN
IC651 TC9162N
IC651(1/3) : AUDIO SIGNAL (VIDEO) INPUT SELECTOR
IC652(1/3) : AUDIO SIGNAL (VIDEO) INPUT SELECTOR
IC652 TC9163N
IC651(2/3), IC652(2/3) : REC SELECTOR (VIDEO AUDIO SIGNAL)
IC651(3/3), IC652(3/3) : CONTROL DATA INPUT
CN261
VIDEO (FROM FRONT) (INPUT TEAM) (➡ P59)
1
2
3
4
5
6
A
B
C
D

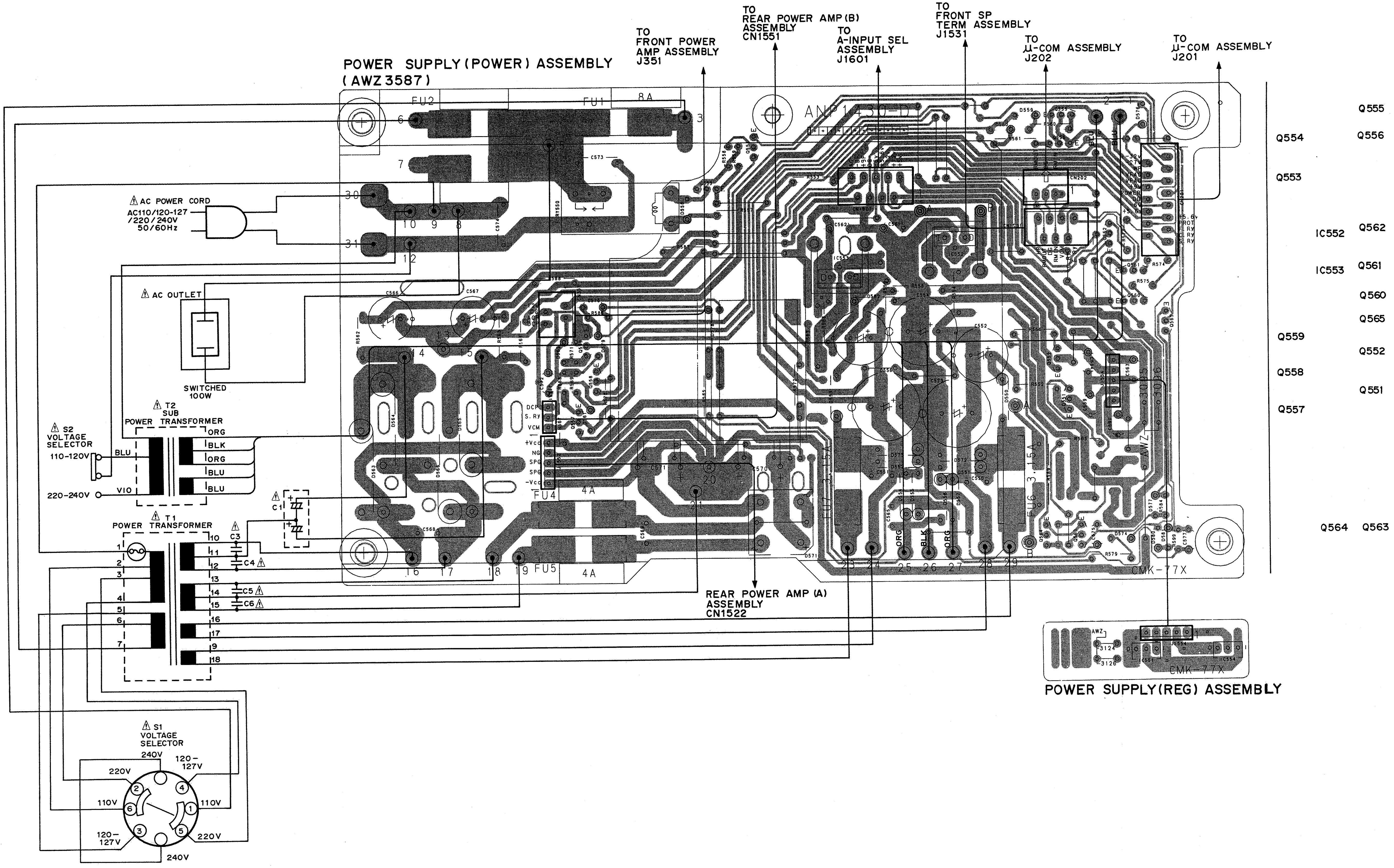

3
4
5
6
7
8
9
A
B
C
D
AUDIO SIGNAL
(FRONT) : FRONT AUDIO SIGNAL
(REAR) : REAR AUDIO SIGNAL
(CENTER) : CENTER AUDIO SIGNAL
(BASS.S) : BASS SYNTHESIZER
IC620 : OVERLOAD DETECTOR
IC618 TC9164N
IC618(1/4),(2/4) : INPUT ATT
IC605, IC606 : BUFFER AMP
IC605 M5238PF
IC601 M5220P
IC603 TC9163N
IC606 M5238PF
IC618 TC9164N
Q601 - Q604 : DIRECT
Q634, Q635 : MUTE(FRONT)
Q628 - Q633 : DIRECT / MUTE CONTROL
IC604, Q605 - Q612 FRONT BUFFER AMP
IC610(1/2) : FRONT ELECTRONIC BALANCE VOLUME
IC615,616,617 RC4558DXP
IC618(3/4) : BASS SYNTHESIZER SW
IC612(1/3) : BASS SYNTHESIZER ELECTRONIC VOLUME
IC611(1/2) : REAR ELECTRONIC BALANCE VOLUME
IC615, IC617
Q625 - Q627 : BASS SYNTHESIZER
IC616 : B.P.F
IC613, IC614 : BUFFER AMP
IC612(2/3) : CENTER ELECTNIC BALANCE VOLUME
IC603(2/2), IC610(2/2), IC611(2/2), IC612(2/2), IC618(4/4) : CONTROL DATA INPUT
IC651(3/3), IC652(3/3) : CONTROL DATA INPUT
IC652(2/3)
TOR(VIDEO
ELECTOR
CN270
TO VR ASSEMBLY J1270 (→ P51)
-12V +12V RR G RL G C G FR G FL
604
603
602 (DAG)
601 (ADG)
J1601
+5V +12V -12V +5.6V -6V DG +40V -40V AC
TO POWER SUPPLY (POWER) ASSEMBLY CN1601 (→ P42)
CN100
ST-SUR SW CD BCK WCK ST83 DATA CLK NC
TO DSP ASSEMBLY J100 (→ P83)
CN204
ST-R VR ST-F VR ST-C/SB ST-AV ST-FUNC CK DT DIRECT F MUTE CD BCK WCK ST-SUR SW (STR6) OVER IND
TO μ-COM ASSEMBLY J204 (→ P53)
CN102
L ADG R G +12V DAG -12V DG +5V
TO DSP ASSEMBLY J102 (→ P83)
CN101
FL C FR G SL SR
TO DSP ASSEMBLY J101 (→ P85)
J1603
J1604
(FRONT)
(REAR)
(CENTER)
(BASS.S)
RL
RR
C
GND
-40V
+40V
DIRECT MUTE
DG
DATA
CLK

3.6 POWER SUPPLY (REG) AND POWER SUPPLY (POWER) (AWZ3587) ASSEMBLY


POWER SUPPLY (REG) ASSEMBLY
IC554 VIN VOUT M5F79M12L
IC551 VIN VOUT M5F78M12L
AWZ3126
J1554
Q551,Q552,Q563,Q564,IC551 - IC554 : REGULATOR
TO A- INPUT SEL ASSEMBLY J1601 (P39)
+5v +12v -12v +5.6v -6v DG +BF -BF AC
CN1601
POWER SUPPLY (POWER) ASSEMBLY (AWZ3587)
C1 12000 /56
C4 0.047 /250
C3 0.047 /250
T1 POWER TRANSFORMER ATS1358
C5 0.047/250
C6 0.047/250
FU6 AEK-124 3.15A
FU7 AEK-124 3.15A
200mA
130mA
300mA
200mA
300mA
IC552 NJM78M56FA
IC553 NJM79M05FA
R589 47 2W
R583 82 2W
C559 47/25
C560 47/16
C563 47/25
C564 47/16
C553 3300/16
C554 3300/16
C556 3300/16
C552 2200/16
C555 2200/16
Q557-Q559 :PROTECTION
R562 560 1/4W
R563 560 1/4W
R564 2.0k 1/2W
R572 10(1/2W)
30D2FC-2 (D563, 564, 565, 566)
+48V (36V)
+B
-B
FU4 3.15A AEK-124
FU5 3.15A AEK-124
RB402(C)
D571
C570,571 : ACH1171
4700/35
C569 0.01/AC250 ACG1005
C568 0.01/AC250 ACG1005
S1 VOLTAGE SELECTOR AKX-507
240V 220V 120-127V 110V
RY550 ASR1027
Q553,Q554: RELAY DRIVER (POWER)
Q565: AC PULSE GENERATOR (WAKE UP)
Q555,Q556: AC POWER SUPPLY (FL)
T2 SUB POWER TRANSFORMER ATT1161
ORG BLK ORG BLU BLU
FU1 AEK-125 4A
FU2 AEK-125 4A
RY550 ASR-1027
C573 ACG1002
C574 ACG1002
AKP-116
S2 110~120 220~240
VOLTAGE SELECTOR AKX1004
AC OUTLET SWITCHED 100W AKP1015
AC110/120-127 /220/240V 50/60Hz
AC POWER CORD ADG1073
Q560: FRONT RELAY DRIVER
Q561: CENTER RELAY DRIVER
Q562: REAR RELAY DRIVER
Q560,561,562 :2SC2603
R575 4.7K
R574 4.7K
R573 4.7K
-Vcc SPG SPG NG +Vcc
J1552
TO REAR POWER AMP(A) ASSEMBLY CN1552 (P26)
VCM S.Ry DCP
J1551
TO REAR POWER AMP(B) ASSEMBLY CN1551 (P26)
-12v DG ACP DCP
CN351 KPE4
TO FRONT POWER AMP ASSEMBLY J351 (P16)
CN201
-32v -27v WP VFAC VFAC +9v POWER DG -6v +5.6v +5.6v PROT F.Ry C.Ry S.Ry
TO μ-COM ASSEMBLY J201 (P53)
CN1531 KPE7
F.Ry C.Ry VCM RMIN DG RMOUT HP
TO FRONT SP TERM ASSEMBLY J1531 (P27)
CN202
RM IN DG RM OUT
TO μ-COM ASSEMBLY J202 (P53)
1 2 3 4 5 6
A B C D

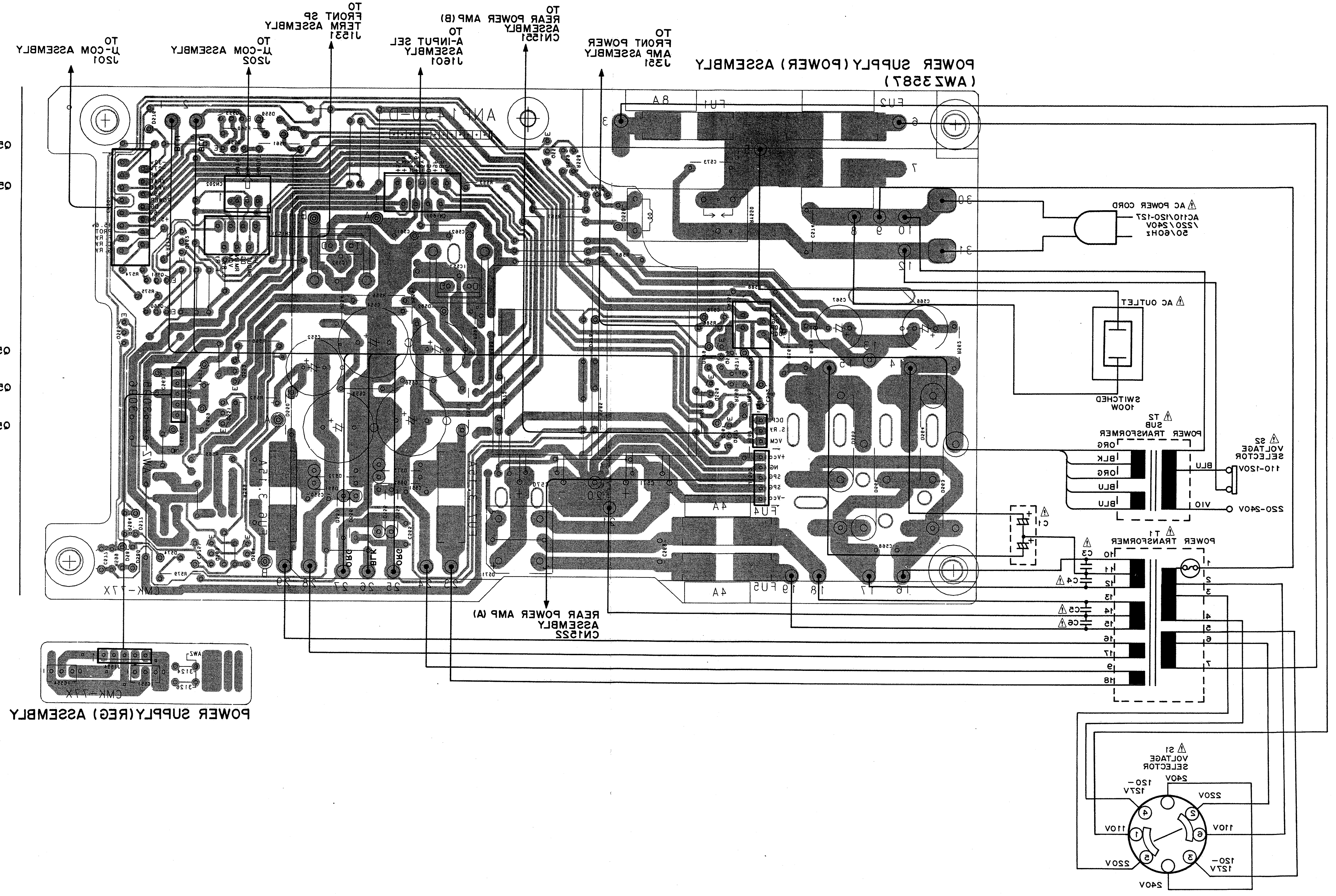
3.6 POWER SUPPLY (REG) AND POWER SUPPLY (POWER) (AWZ3587) ASSEMBLY

- View from component side


POWER SUPPLY (POWER) ASSEMBLY
(AWZ3587)
TO FRONT POWER AMP ASSEMBLY J351
TO REAR POWER AMP (B) ASSEMBLY CN1551
TO A-INPUT SEL ASSEMBLY J1601
TO FRONT SP TERM ASSEMBLY J1531
TO µ-COM ASSEMBLY J202
TO µ-COM ASSEMBLY J201
⚠ AC POWER CORD
AC110/120-127 /220/240V 50/60Hz
⚠ AC OUTLET
SWITCHED 100W
⚠ T2 SUB POWER TRANSFORMER
ORG
BLK
ORG
BLU
BLU
⚠ S2 VOLTAGE SELECTOR
110-120V
BLU
220-240V
VIO
⚠ T1 POWER TRANSFORMER
⚠ C1
⚠ C3
C4 ⚠
C5 ⚠
C6 ⚠
⚠ S1 VOLTAGE SELECTOR
240V
220V
120-127V
110V
110V
220V
120-127V
240V
FU1
8A
FU2
FU4
4A
FU5
4A
FU6 3.15A
FU7 3.15A
ANP1430-D
AWZ-3096
CN202
CN201
CMK-77X
RY550
DCP
S.RY
VCM
+Vcc
NG
SPG
SPG
-Vcc
ORG
BLK
ORG
REAR POWER AMP (A) ASSEMBLY CN1522
POWER SUPPLY (REG) ASSEMBLY
Q555
Q554
Q556
Q553
IC552
Q562
IC553
Q561
Q560
Q565
Q559
Q552
Q558
Q551
Q557
Q564
Q563

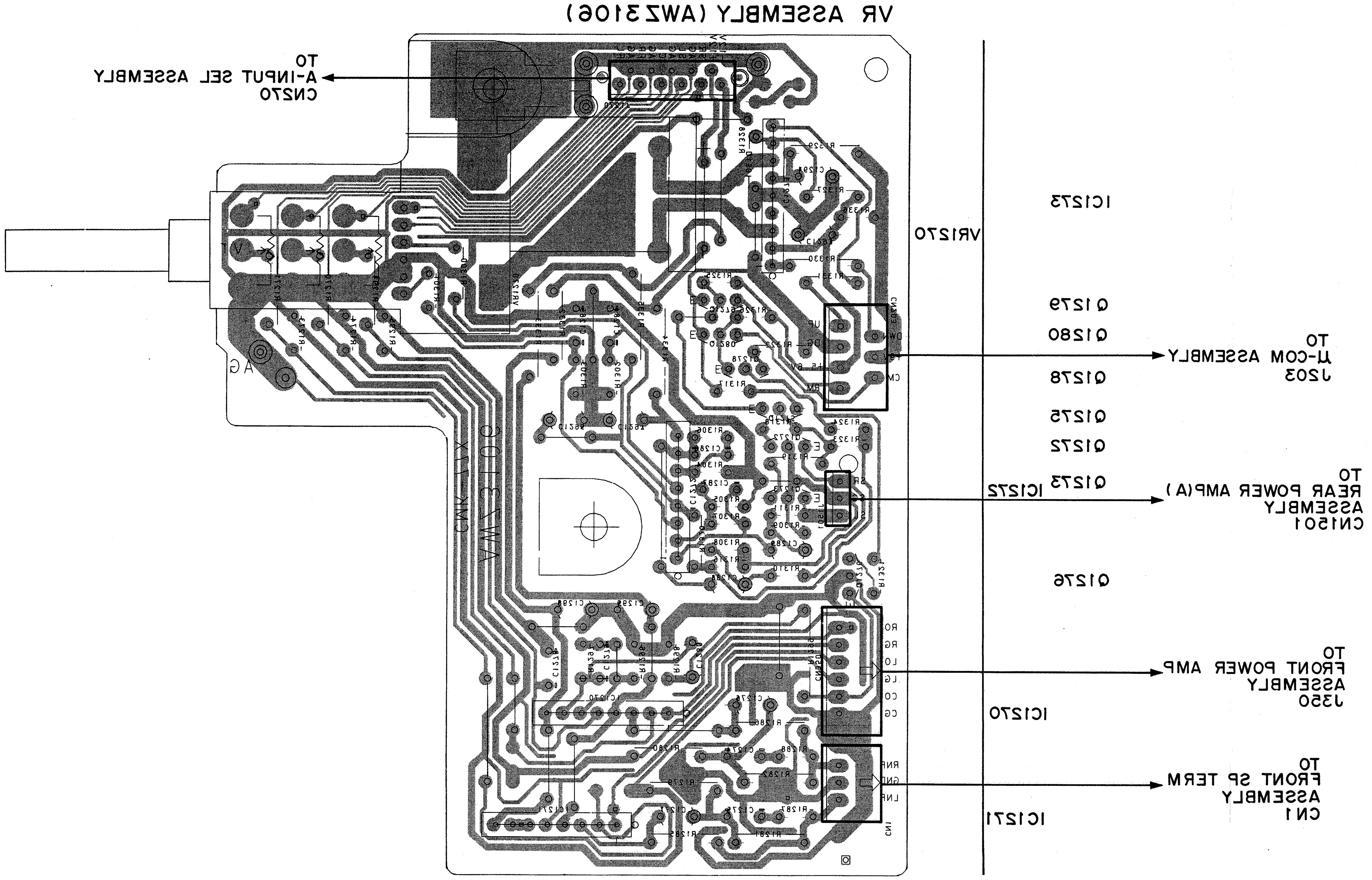
3.6 POWER SUPPLY (REG) AND POWER SUPPLY (POWER) (AWZ3587) ASSEMBLY

- View from soldering side


TO
µ-COM ASSEMBLY
J201
TO
µ-COM ASSEMBLY
J202
TO
FRONT SP
TERM ASSEMBLY
J1531
TO
A-INPUT SEL
ASSEMBLY
J1601
TO
REAR POWER AMP (B)
ASSEMBLY
CN1551
TO
FRONT POWER
AMP ASSEMBLY
J1351
POWER SUPPLY (POWER) ASSEMBLY
(AWZ3587)
Q555
Q556
Q554
Q553
Q562
IC552
Q561
IC553
Q560
Q565
Q559
Q552
Q558
Q551
Q557
Q564
Q563
FU1
FU2
FU4
FU5
8A
4A
C573
C567
C566
AC POWER CORD
AC110/120-127
/220/240V
50/60Hz
AC OUTLET
SWITCHED
100W
T2
SUB
POWER TRANSFORMER
ORG
BLK
ORG
BLU
BLU
BLU
VIO
S2
VOLTAGE
SELECTOR
110-120V
220-240V
C1
T1
POWER TRANSFORMER
C3
C4
C5
C6
DCP
S.RY
VCM
+Vcc
NG
SPG
SPG
-Vcc
ORG
BLK
ORG
REAR POWER AMP (A)
ASSEMBLY
CN1522
CMK-77X
AWZ
POWER SUPPLY (REG) ASSEMBLY
S1
VOLTAGE
SELECTOR
240V
220V
110V
120-
127V
110V
220V
120-
127V
240V

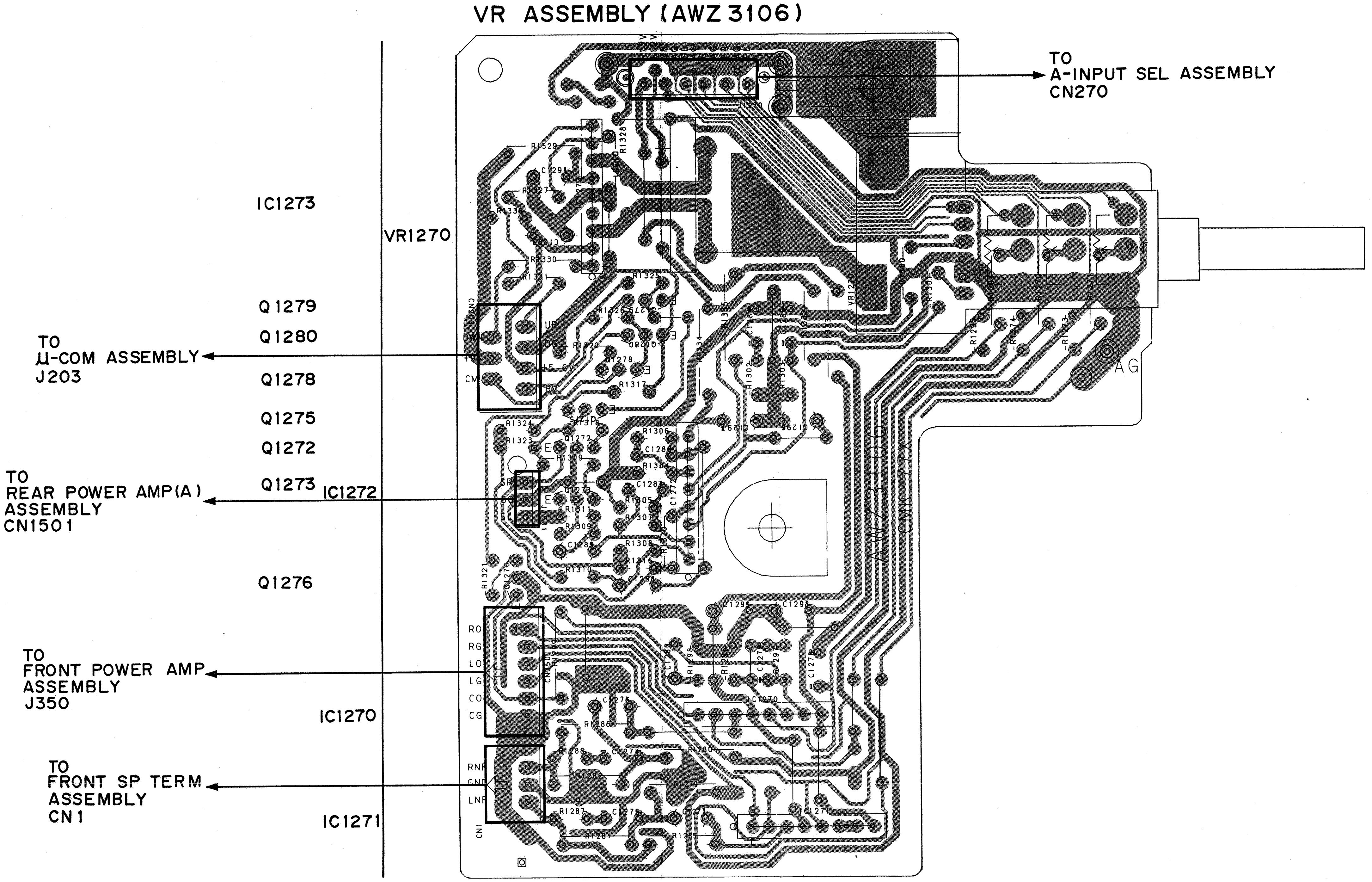
3.7 VR ASSEMBLY (AWZ3106)

- View from soldering side

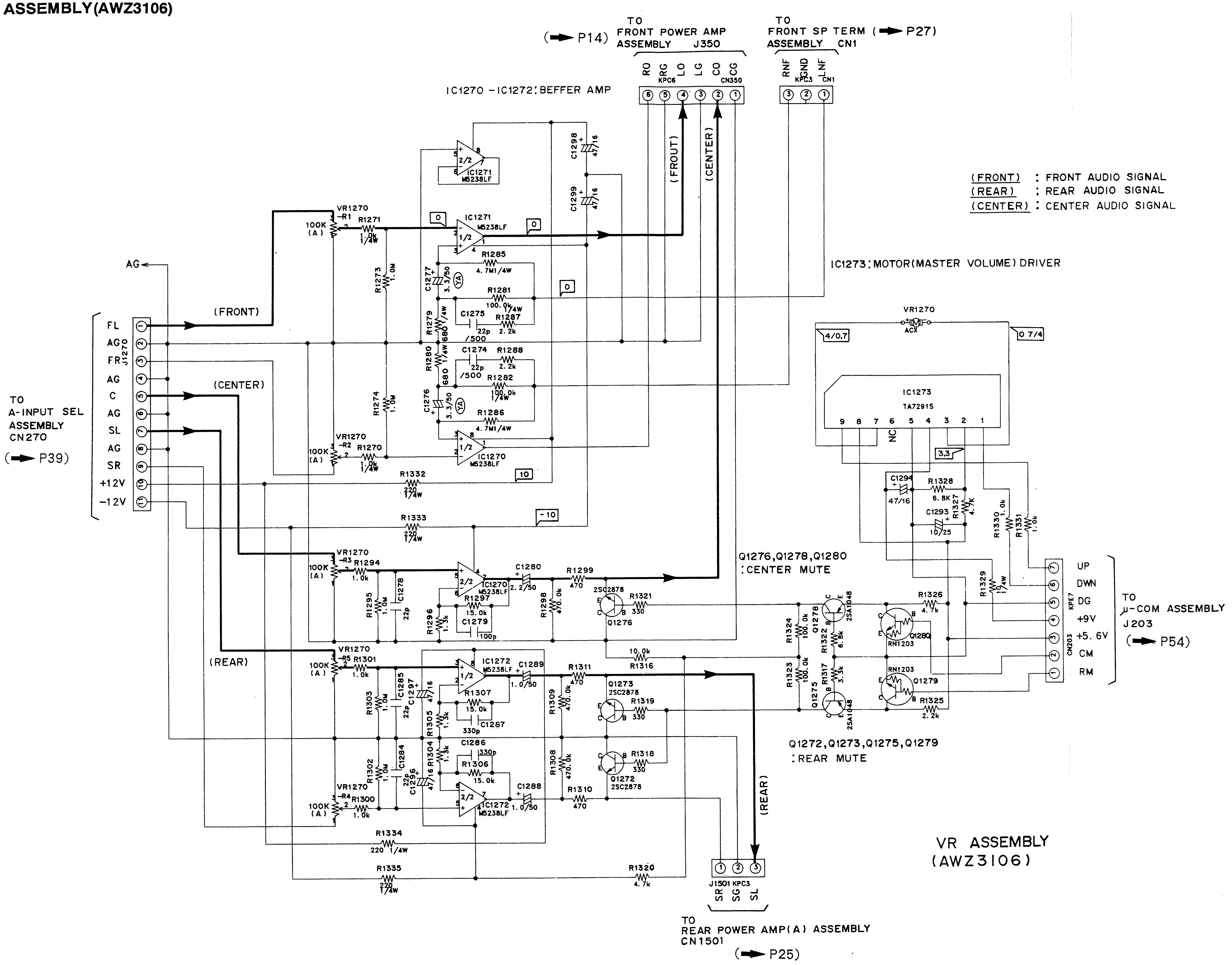

VR ASSEMBLY (AWZ3106)
TO
A-INPUT SEL ASSEMBLY
CN270
VR1270
IC1273
Q1279
Q1280
TO
μ-COM ASSEMBLY
J203
Q1278
Q1275
Q1272
Q1273
IC1272
TO
REAR POWER AMP(A)
ASSEMBLY
CN1501
Q1276
TO
FRONT POWER AMP
ASSEMBLY
J350
IC1270
TO
FRONT SP TERM
ASSEMBLY
CN1
IC1271

3.7 VR ASSEMBLY (AWZ3106)

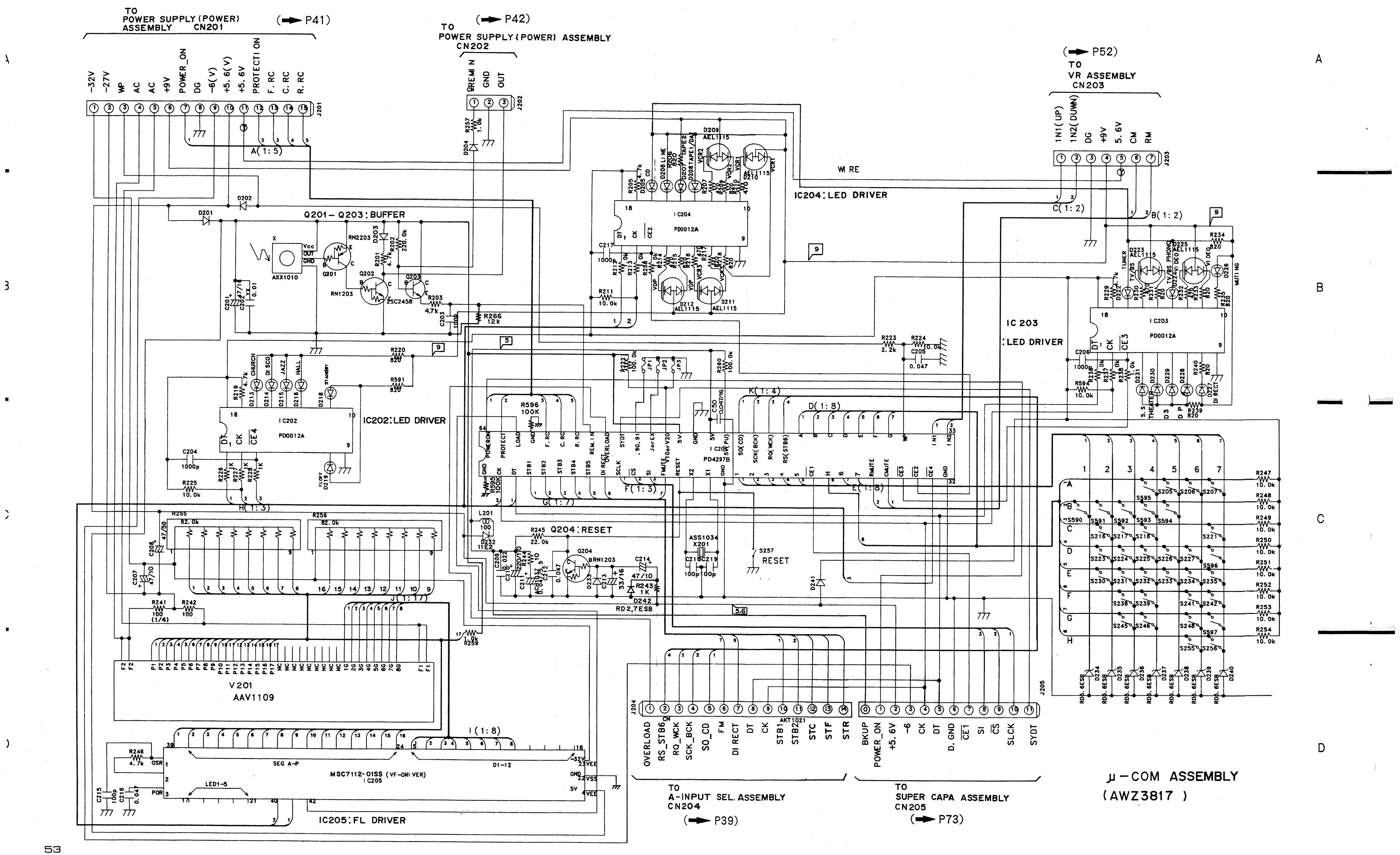
- View from component side


VR ASSEMBLY (AWZ 3106)
TO
A-INPUT SEL ASSEMBLY
CN270
IC1273
VR1270
Q1279
Q1280
TO
μ-COM ASSEMBLY
J203
Q1278
Q1275
Q1272
TO
REAR POWER AMP (A)
ASSEMBLY
CN1501
Q1273
IC1272
Q1276
TO
FRONT POWER AMP
ASSEMBLY
J350
IC1270
TO
FRONT SP TERM
ASSEMBLY
CN1
IC1271
AWZ3106
AG
RO
RG
LO
LG
CO
CG
RNF
GND
LNF

3.7 VR ASSEMBLY(AWZ3106)

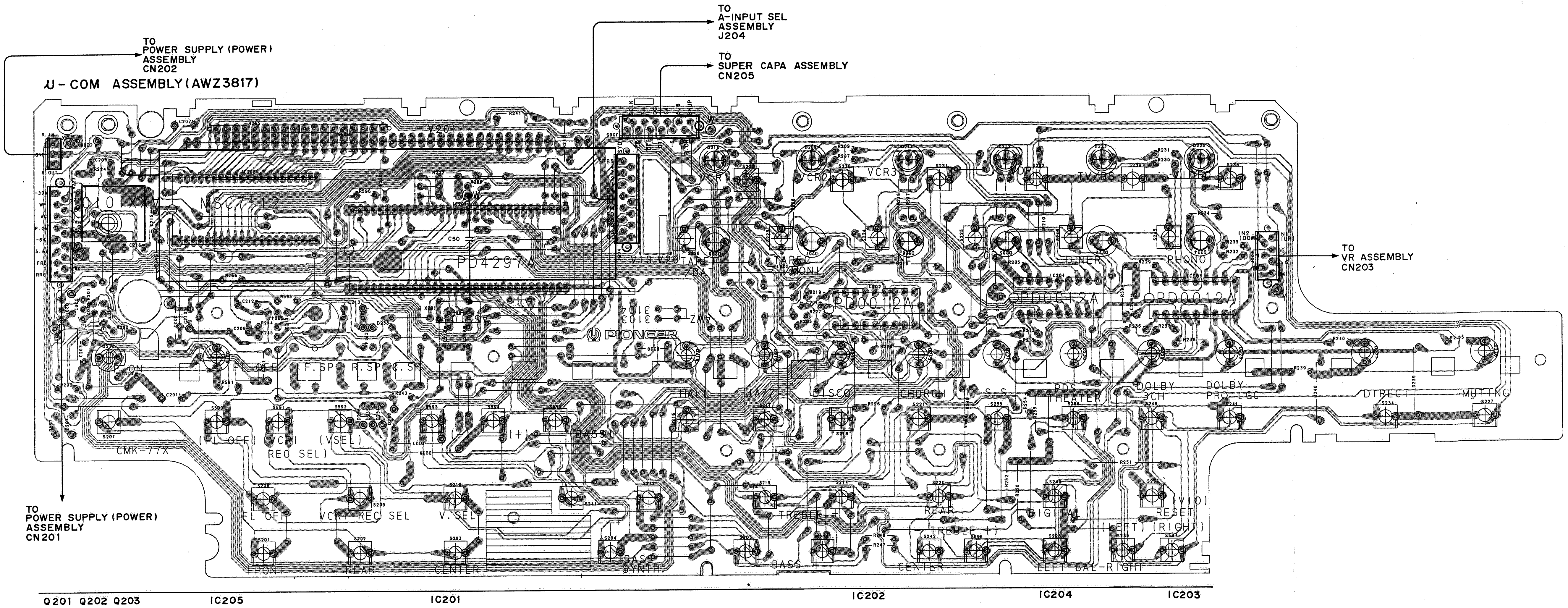

TO
FRONT POWER AMP
ASSEMBLY J350
(➡ P14)
RO RG LO LG CO CG
KPC6 CN350
TO
FRONT SP TERM (➡ P27)
ASSEMBLY CN1
RNF GND LNF
KPC3 CN1
IC1270 – IC1272 : BEFFER AMP
(FRONT) : FRONT AUDIO SIGNAL
(REAR) : REAR AUDIO SIGNAL
(CENTER) : CENTER AUDIO SIGNAL
IC1273 : MOTOR(MASTER VOLUME) DRIVER
VR1270 ACX
IC1273 TA7291S
Q1276,Q1278,Q1280 :CENTER MUTE
Q1272,Q1273,Q1275,Q1279 :REAR MUTE
TO A-INPUT SEL ASSEMBLY CN270 (➡ P39)
J1270
FL AG FR AG C AG SL AG SR +12V −12V
AG
(FRONT)
(CENTER)
(REAR)
(FROUT)
TO μ-COM ASSEMBLY J203 (➡ P54)
KPE7 CN203
UP DWN DG +9V +5.6V CM RM
J1501 KPC3
SR SG SL
TO
REAR POWER AMP(A) ASSEMBLY
CN1501
(➡ P25)
VR ASSEMBLY
(AWZ3106)
IC1271 M5238LF
IC1270 M5238LF
IC1272 M5238LF
VR1270-R1 VR1270-R2 VR1270-R3 VR1270-R4 VR1270-R5
100K (A)
R1271 1.0k 1/4W
R1273 1.0M
R1285 4.7M1/4W
R1281 100.0k 1/4W
R1287 2.2k
R1279 680 1/4W
R1280 680 1/4W
C1275 22p /500
C1274 22p /500
R1288 2.2k
R1282 100.0k 1/4W
R1286 4.7M1/4W
C1277 3.3/50
C1276 3.3/50
C1298 47/16
C1299 47/16
R1274 1.0M
R1270 1.0k 1/4W
R1332 220 1/4W
R1333 220 1/4W
R1294 1.0k
R1295 1.0M
C1278 22p
R1296 1.3k
R1297 15.0k
C1279 100p
C1280 2.2/50
R1299 470
R1298 470.0k
2SC2878 Q1276
R1321 330
R1316 10.0k
R1301 1.0k
R1303 1.0M
C1285 22p
C1297 47/16
R1305 1.3k
R1307 15.0k
C1267 330p
C1289 1.0/50
R1311 470
R1309 470.0k
Q1273 2SC2878
R1319 330
C1286 330p
R1306 15.0k
R1304 1.3k
C1296 47/16
R1302 1.0M
C1284 22p
R1300 1.0k
C1288 1.0/50
R1310 470
R1308 470.0k
R1318 330
Q1272 2SC2878
R1334 220 1/4W
R1335 220 1/4W
R1320 4.7k
C1294 47/16
R1328 6.8K
R1327 4.7K
C1293 10/25
R1330 1.0k
R1331 1.0k
R1329 10 1/4W
R1326 4.7k
RN1203 Q1280
RN1203 Q1279
R1325 2.2k
Q1278 2SA1048
R1324 100.0k
R1322 6.8k
R1323 100.0k
R1317 3.3k
Q1275 2SA1048
0 0 0 10 −10 4/0.7 0 7/4 3.3

3.8 µ-COM ASSEMBLY (AWZ3817)


TO POWER SUPPLY (POWER) ASSEMBLY CN201
(➡ P41)
-32V
-27V
WP
AC
AC
+9V
POWER_ON
DG
-6(V)
+5.6(V)
+5.6V
PROTECTION
F.RC
C.RC
R.RC
J201
A(1:5)
TO POWER SUPPLY (POWER) ASSEMBLY CN202
(➡ P42)
REM IN
GND
OUT
J202
R257 1.0k
D204
(➡ P52)
TO VR ASSEMBLY CN203
IN1(UP)
IN2(DOWN)
DG
+9V
5.6V
CM
RM
J203
C(1:2)
B(1:2)
WIRE
IC204: LED DRIVER
IC204 PD0012A
D209 AEL1115
D210 AEL1115
D211 AEL1115
D212 AEL1115
D206 LINE
D207 TAPE2
D208 TAPE1/DAT
VCR1
VCR2
VCR3
VDP
C217 1000p
R211 10.0k
Q201 – Q203: BUFFER
AXX1010
Vcc
OUT
GND
Q201
Q202
Q203
RN2203
RN1203
2SC2458
D201
D202
D203
R201 4.7k
R202 220.0k
R203 4.7k
R266 12k
C203 100p
C201 47/16
C202 0.01
R220 820
R591 820
IC202: LED DRIVER
IC202 PD0012A
CHURCH
DI SCO
JAZZ
HALL
STANDBY
D213
D214
D215
D216
D218
D219
R219 4.7k
C204 1000p
R225 10.0k
R226 1K
R227 1K
R228 1K
H(1:3)
IC201 PD4297B
R596 100K
R595 100K
POWERON
PROTECT
LOAD
GND
F.RC
C.RC
R.RC
REM.IN
OVERLOAD
SYDT
90, 91
JorEX
5V
GND
5V
SO(CD)
SCK(BCK)
RQ(WCK)
RS(STB6)
A
B
C
D
E
F
G
WP
IN1
IN2
CK
DT
STB1
STB2
STB3
STB4
STB5
DIRECT
CS
SI
FM
RESET
X2
X1
GND
H
RMUTE
CMUTE
CE1
CE2
CE3
CE4
K(1:4)
D(1:8)
E(1:8)
F(1:3)
G(1:7)
C50 0.047/16
R260 100.0k
R272 100.0k
JP1
JP2
JP3
R223 2.2k
R224 10.0k
C205 0.047
IC 203 : LED DRIVER
IC203 PD0012A
D223 AEL1115
D225 AEL1115
TUNER
TV/BS
TV/BS PHONO
VIDEO
MUTING
S.S
THEATER
D3
D P
DIRECT
R234 820
R239 820
R59 10.0k
C206 1000p
L201 100
D232 11E2
Q204: RESET
Q204 BRN1203
R245 22.0k
C214 47/10
C213 33/16
R243 1K
D242 RD2,7ESB
D233
C209 0.022
C210
C211
ASS1034 X201
C218 100p
C219 100p
S257 RESET
D241
R255 82.0k
R256 82.0k
C208 47/50
C207 47/10
R241 100 (1/4)
R242 100
J(1:17)
R259 1.0k
V201 AAV1109
F2
F2
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
P12
P13
P14
P15
P16
P17
NC
1G
2G
3G
4G
5G
6G
7G
8G
F1
F1
I(1:8)
R246 4.7k
OSR
POR
SEG A-P
D1-12
LED1-5
MSC7112-01SS (VF-DRIVER) IC205
-32V
VEE
GND
VSS
5V
VEE
C215 100p
C216 0.047
IC205: FL DRIVER
S590
S591
S592
S593
S594
S595
S205
S206
S207
S216
S217
S218
S221
S223
S224
S225
S226
S227
S596
S230
S231
S232
S233
S234
S235
S238
S239
S241
S242
S245
S246
S248
S597
S255
S256
R247 10.0k
R248 10.0k
R249 10.0k
R250 10.0k
R251 10.0k
R252 10.0k
R253 10.0k
R254 10.0k
D234
D235
D236
D237
D238
D239
D240
RD5.6ESB
J204
OVERLOAD
RS_STB6
RQ_WCK
SCK_BCK
SO_CD
FM
DIRECT
DT
CK
STB1
STB2
STC
STF
STR
AKT1021
J205
BKUP
POWER_ON
+5.6V
-6
CK
DT
D.GND
CE1
SI
CS
SLCK
SYDT
TO A-INPUT SEL. ASSEMBLY CN204
(➡ P39)
TO SUPER CAPA ASSEMBLY CN205
(➡ P73)
µ-COM ASSEMBLY (AWZ3817)
1
2
3
4
5
6
A
B
C
D

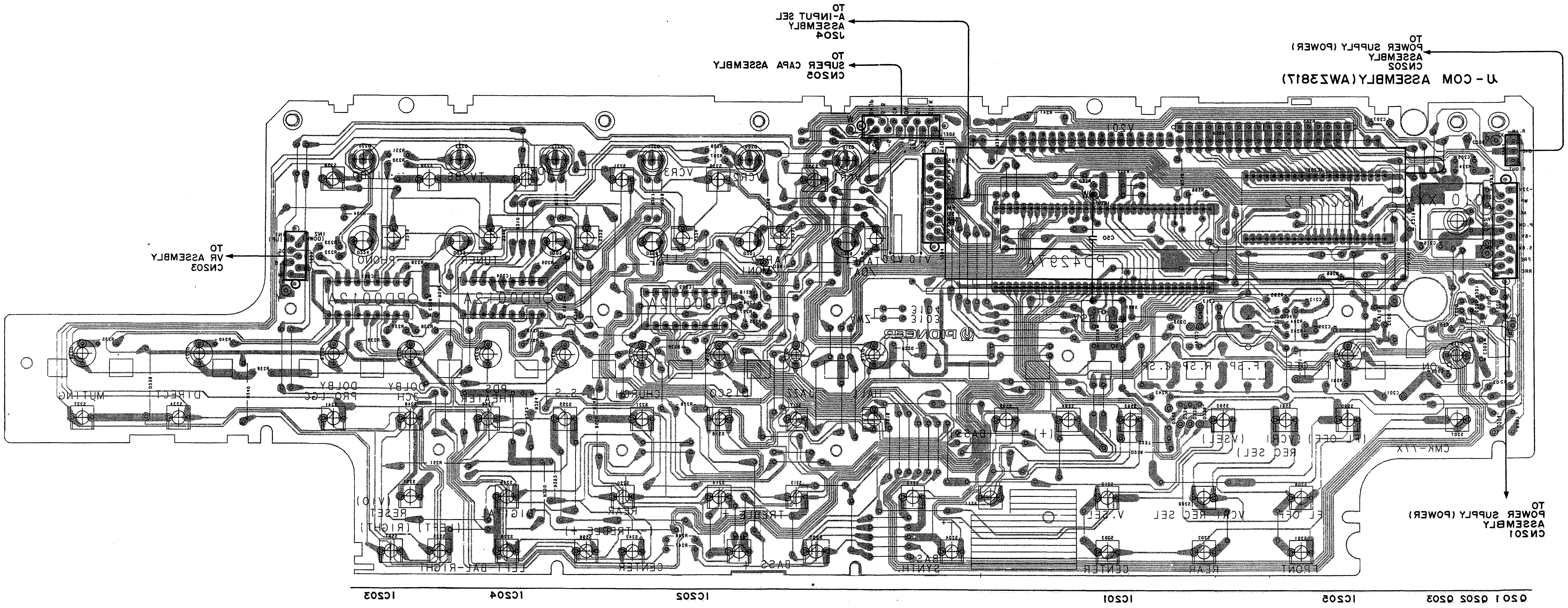
3.8 µ -COM ASSEMBLY (AWZ3817)

- View from component side

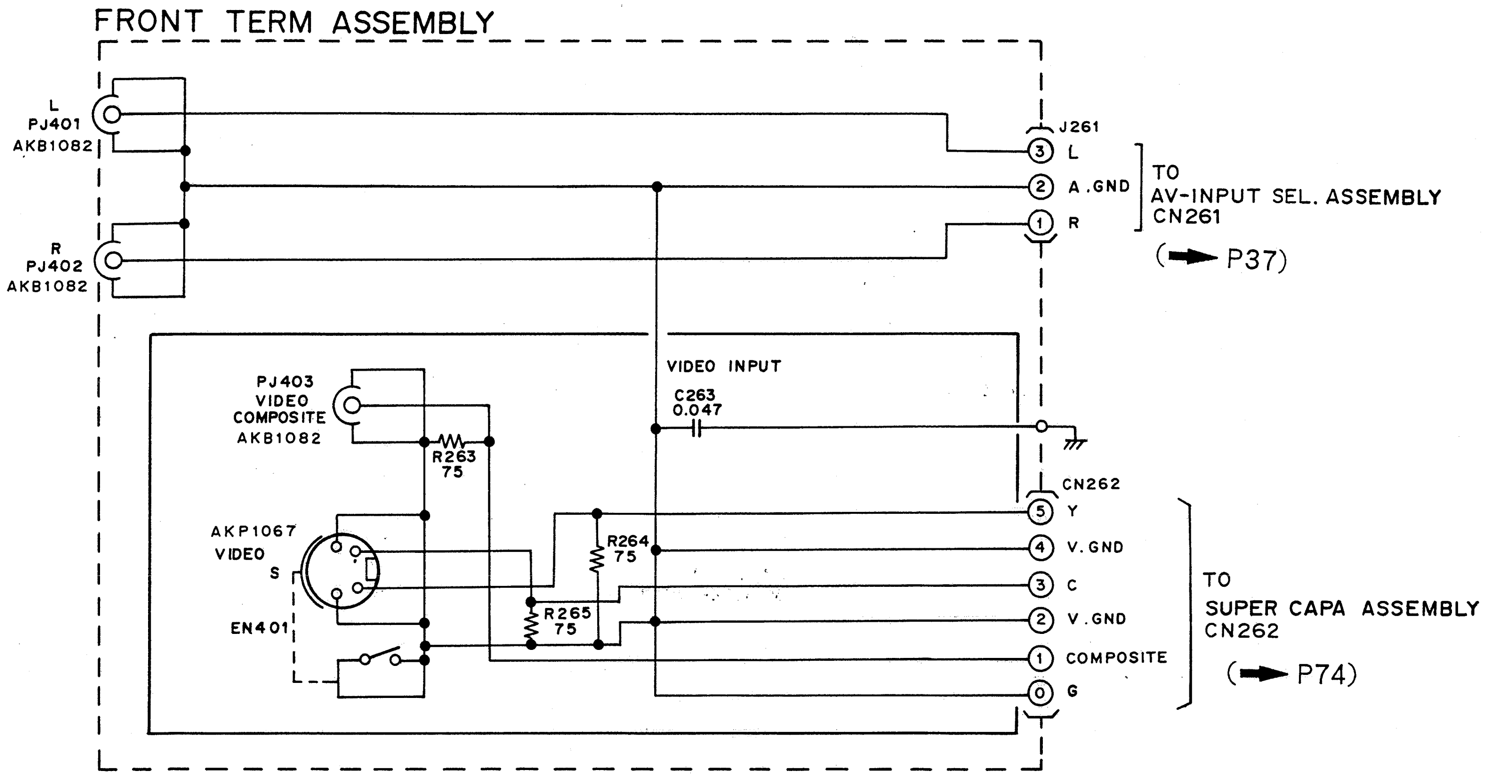

TO
A-INPUT SEL
ASSEMBLY
J204
TO
SUPER CAPA ASSEMBLY
CN205
TO
POWER SUPPLY (POWER)
ASSEMBLY
CN202
µ-COM ASSEMBLY (AWZ3817)
TO
VR ASSEMBLY
CN203
TO
POWER SUPPLY (POWER)
ASSEMBLY
CN201
V201
PD4297A
PD0012A
PD0012A
PD0012A
PIONEER
CMK-77X
VCR1
VCR2
VCR3
CD
TV/BS
VIDEO
TAPE2 MONI
LDP
TUNER
PHONO
V1/V2/TAPE DAT
ON
FL OFF
F.SP
R.SP
C.SP
HALL
JAZZ
DISCO
CHURCH
S.S
PDS HEATER
DOLBY 3CH
DOLBY PRO LGC
DIRECT
MUTING
(FL OFF)
(VCR1 REC SEL)
(VSEL)
(+)
(BASS)
FL OFF
VCR1 REC SEL
V.SEL
TREBLE
REAR
DIGITAL
(V/O) RESET
(LEFT) (RIGHT)
(-TREBLE+)
FRONT
REAR
CENTER
BASS SYNTH.
BASS
CENTER
LEFT BAL RIGHT
Q201 Q202 Q203
IC205
IC201
IC202
IC204
IC203

3.8 μ-COM ASSEMBLY (AWZ3817)

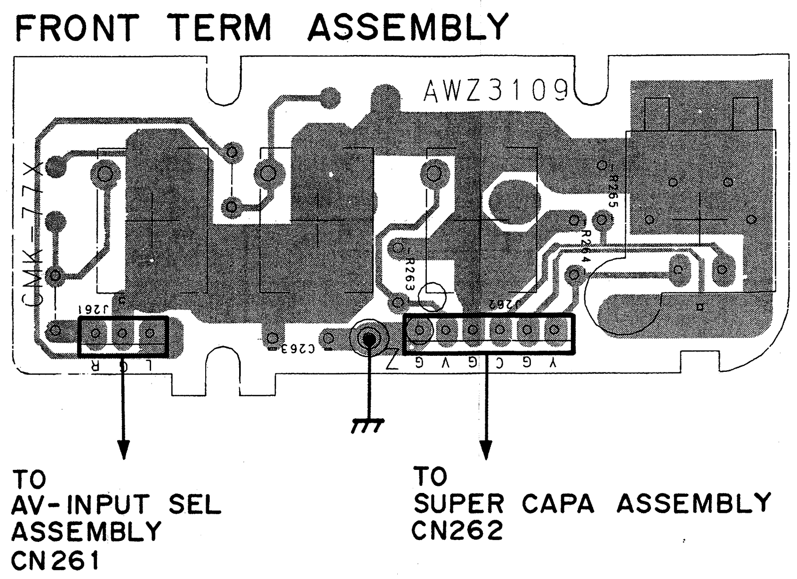
- View from soldering side


TO A-INPUT SEL ASSEMBLY J204
TO SUPER CAPA ASSEMBLY CN205
TO POWER SUPPLY (POWER) ASSEMBLY CN202
μ-COM ASSEMBLY (AWZ3817)
TO VR ASSEMBLY CN203
TO POWER SUPPLY (POWER) ASSEMBLY CN201
PHONO
TUNER
VCR3
VCR2
TAPE MONI
V201
PIONEER
MUTING
DIRECT
DOLBY PRO LGC
DOLBY 3CH
PDS THEATER
CHURCH
DISCO
RESET
BAL
TREBLE
BASS
SYNTH
CENTER
REAR
FRONT
V.SEL
VCR1 REC SEL
FL OFF
IC203
IC204
IC202
IC201
IC205
Q201 Q202 Q203

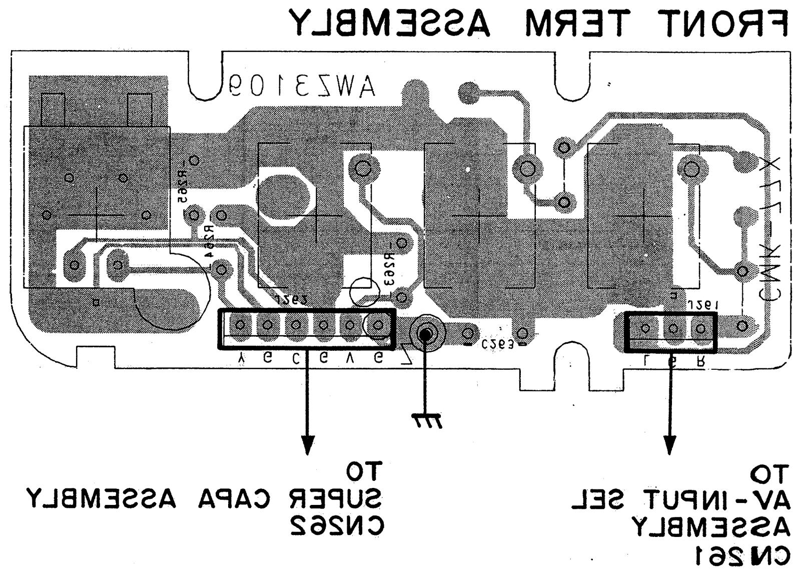
3.9 FRONT TERM ASSEMBLY


FRONT TERM ASSEMBLY
L
PJ401
AKB1082
R
PJ402
AKB1082
J261
③ L
② A.GND
① R
TO
AV-INPUT SEL. ASSEMBLY
CN261
(➡ P37)
VIDEO INPUT
C263
0.047
PJ403
VIDEO
COMPOSITE
AKB1082
R263
75
AKP1067
VIDEO
S
EN401
R264
75
R265
75
CN262
⑤ Y
④ V.GND
③ C
② V.GND
① COMPOSITE
⓪ G
TO
SUPER CAPA ASSEMBLY
CN262
(➡ P74)

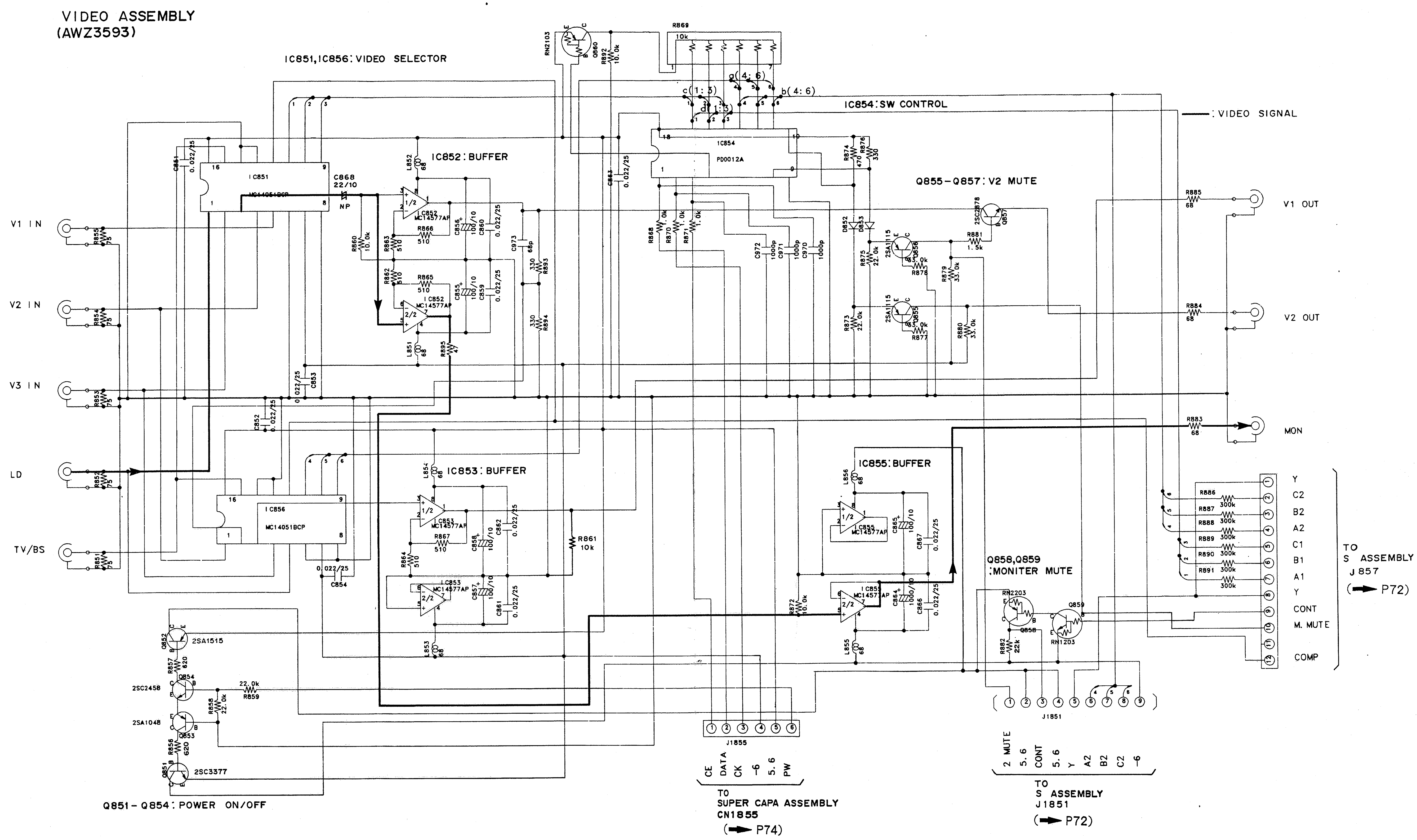
- View from component side


FRONT TERM ASSEMBLY
AWZ3109
CMK-77X
J261
J262
R263
R264
R265
C263
L G R
Y C G V G Z
TO
AV-INPUT SEL
ASSEMBLY
CN261
TO
SUPER CAPA ASSEMBLY
CN262

- View from soldering side

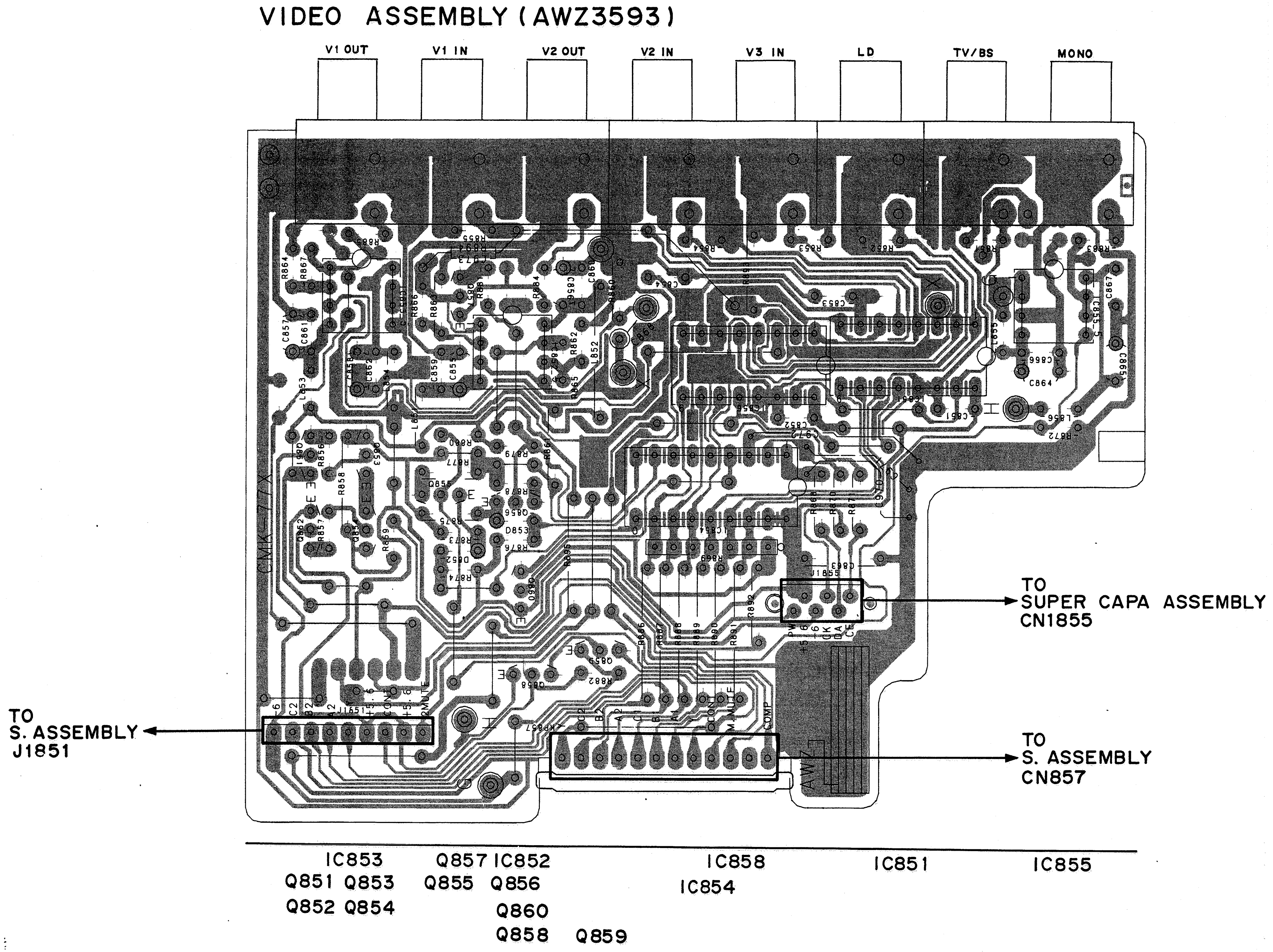

FRONT TERM ASSEMBLY
AWZ3109
CMK-77X
J261
J262
R263
R264
R265
C263
TO
SUPER CAPA ASSEMBLY
CN262
TO
AV-INPUT SEL
ASSEMBLY
CN261

3.10 VIDEO ASSEMBLY (AWZ3593)


VIDEO ASSEMBLY
(AWZ3593)
IC851,IC856: VIDEO SELECTOR
IC852: BUFFER
IC853: BUFFER
IC855: BUFFER
IC854: SW CONTROL
Q855-Q857: V2 MUTE
Q858,Q859 :MONITER MUTE
Q851-Q854: POWER ON/OFF
: VIDEO SIGNAL
V1 IN
V2 IN
V3 IN
LD
TV/BS
V1 OUT
V2 OUT
MON
IC851 MC14051BCP
IC856 MC14051BCP
IC852 MC14577AP
IC853 MC14577AP
IC855 MC14577AP
IC854 PD0012A
C868 22/10 NP
R861 10k
R869 10k
RN2103
Q860
2SA1515
2SC2458
2SA1048
2SC3377
2SC2878
2SA1115
RN2203
RN1203
R886 300k
R887 300k
R888 300k
R889 300k
R890 300k
R891 300k
Y
C2
B2
A2
C1
B1
A1
Y
CONT
M. MUTE
COMP
TO S ASSEMBLY J857
(➡ P72)
J1855
CE
DATA
CK
-6
5.6
PW
TO SUPER CAPA ASSEMBLY CN1855
(➡ P74)
J1851
2 MUTE
5.6
CONT
5.6
Y
A2
B2
C2
-6
TO S ASSEMBLY J1851
(➡ P72)

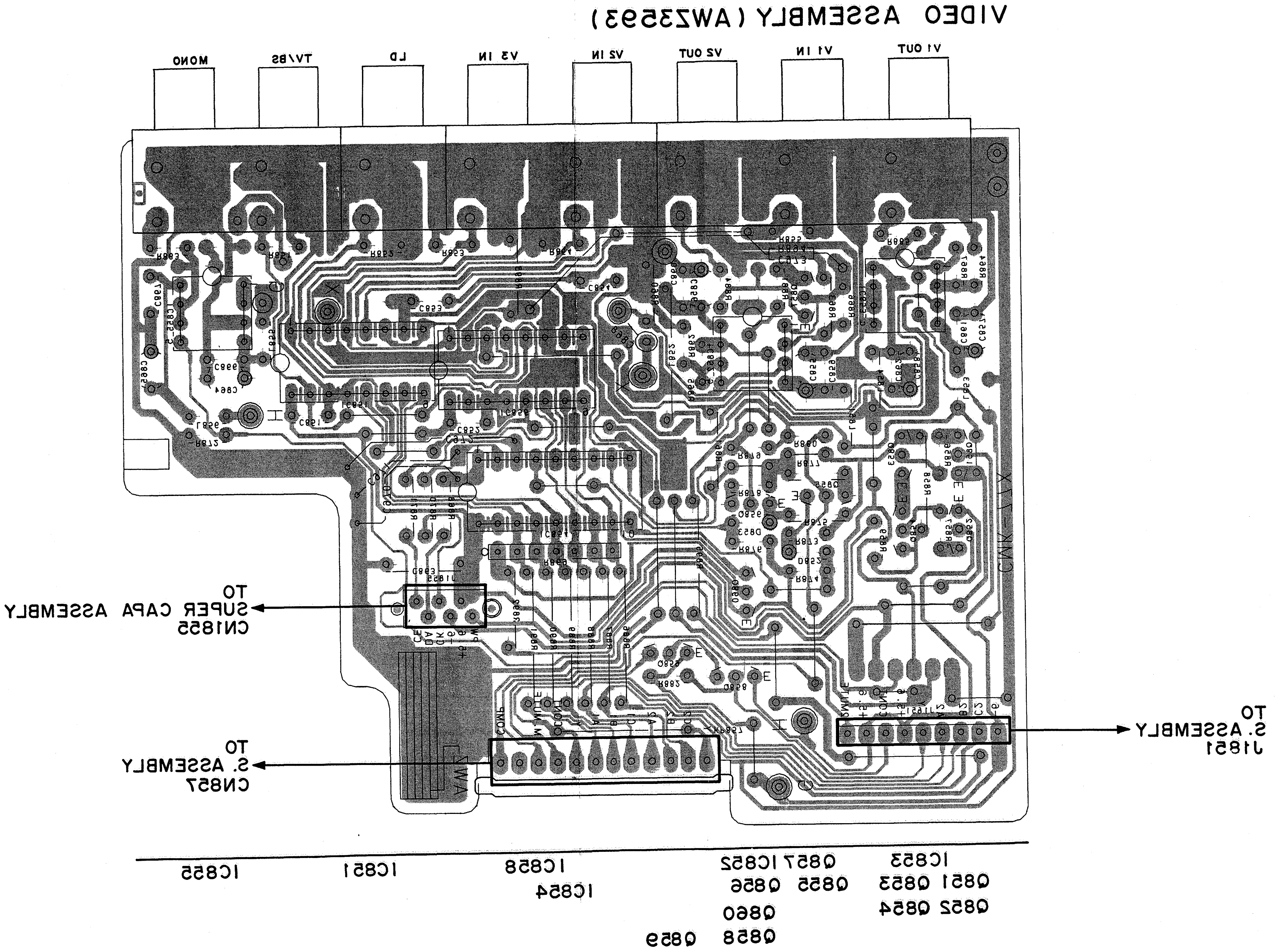
3.10 VIDEO ASSEMBLY (AWZ3593)

- View from component side


VIDEO ASSEMBLY (AWZ3593)
V1 OUT
V1 IN
V2 OUT
V2 IN
V3 IN
LD
TV/BS
MONO
TO SUPER CAPA ASSEMBLY CN1855
TO S. ASSEMBLY J1851
TO S. ASSEMBLY CN857
IC853
Q857 IC852
IC858
IC851
IC855
Q851 Q853
Q855 Q856
IC854
Q852 Q854
Q860
Q858
Q859

3.10 VIDEO ASSEMBLY (AWZ3593)

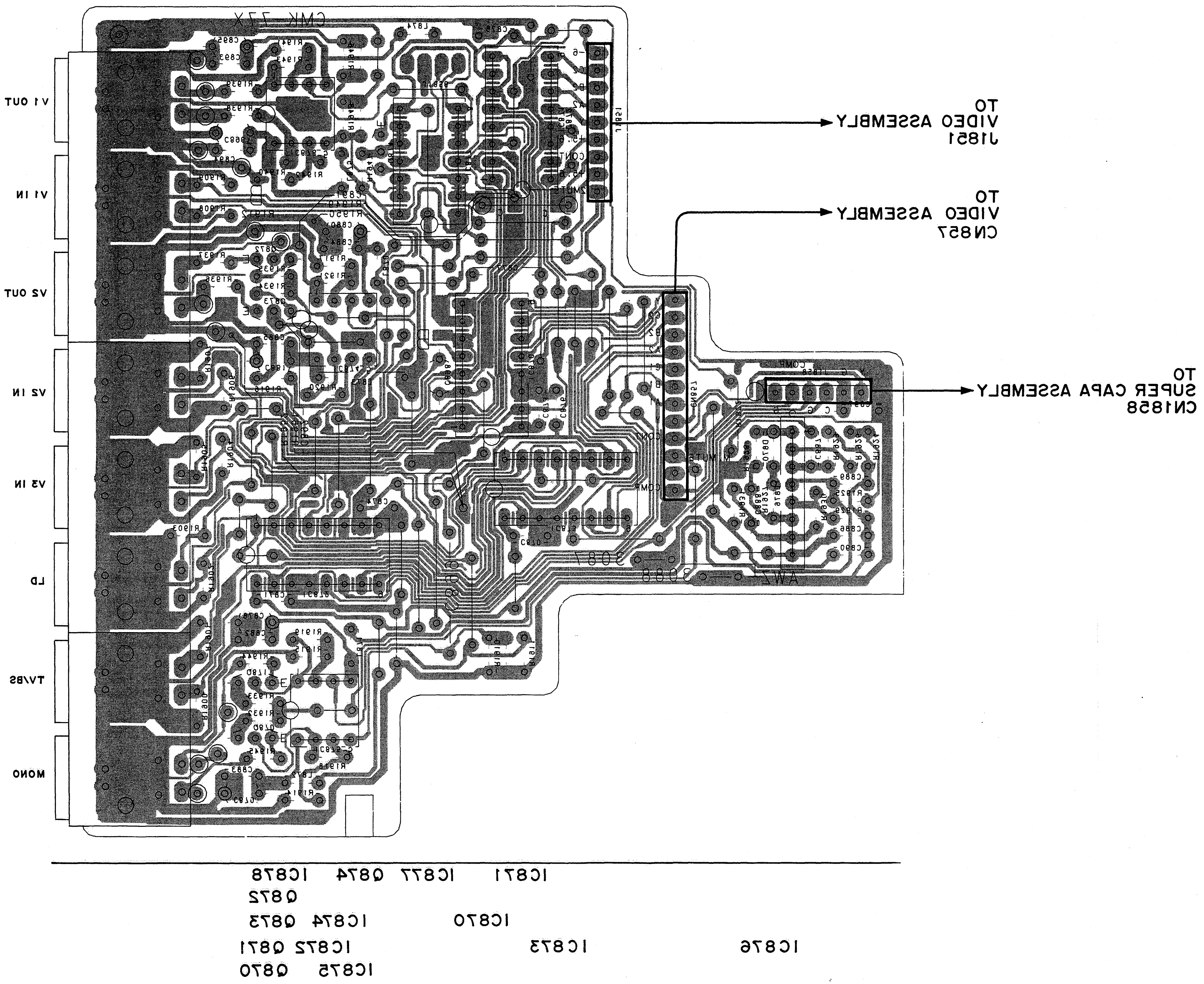
- View from soldering side


VIDEO ASSEMBLY (AWZ3593)
V1 OUT
V1 IN
V2 OUT
V2 IN
V3 IN
LD
TV/BS
MONO
TO SUPER CAPA ASSEMBLY CN1855
TO S. ASSEMBLY CN857
TO S. ASSEMBLY J1851
IC853
Q851 Q853
Q852 Q854
Q857 IC852
Q855 Q856
Q860
Q858 Q859
IC858
IC854
IC851
IC855

3.11 S. ASSEMBLY (AWZ3087)

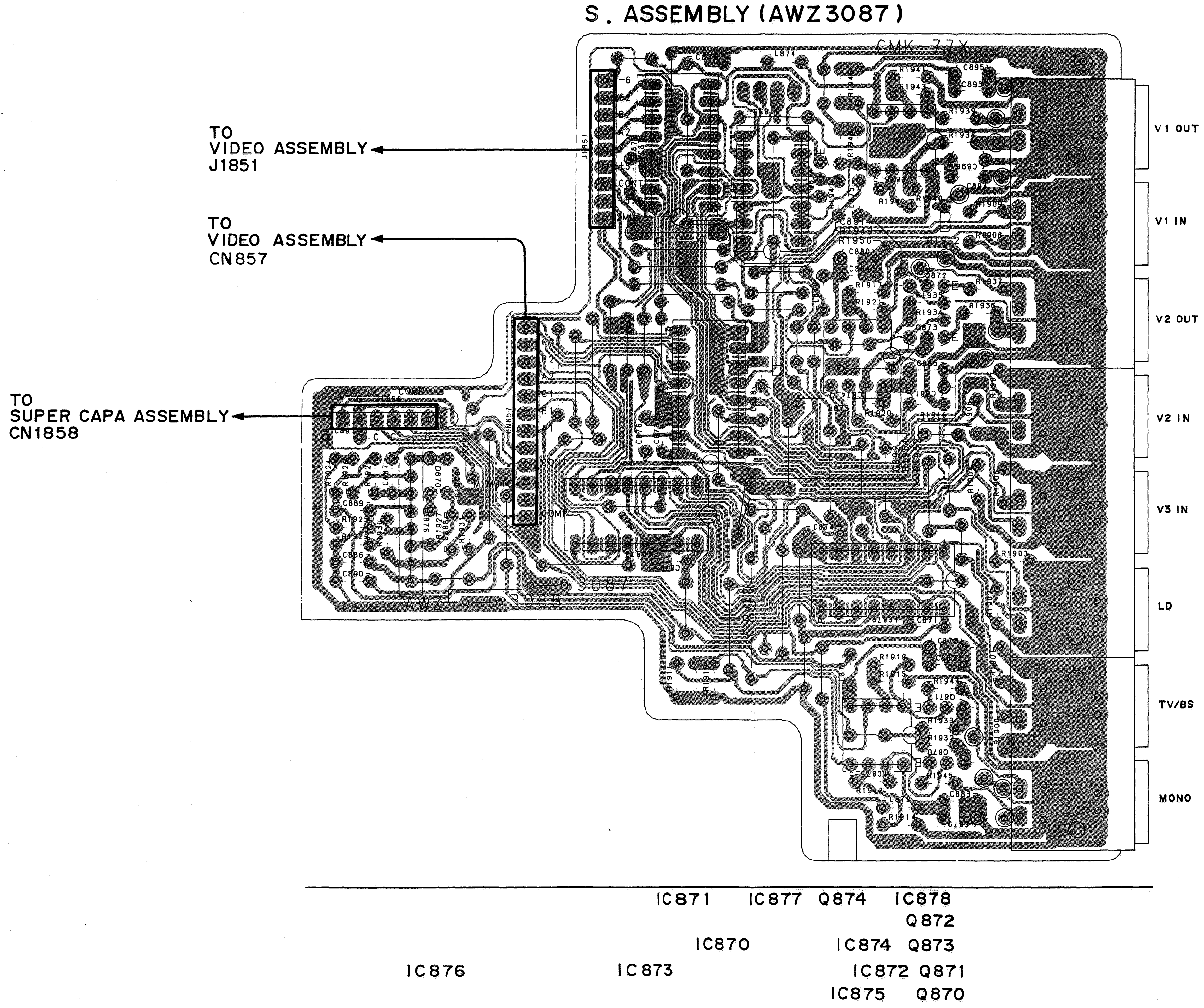
- View from soldering side

S. ASSEMBLY (AWZ3087)

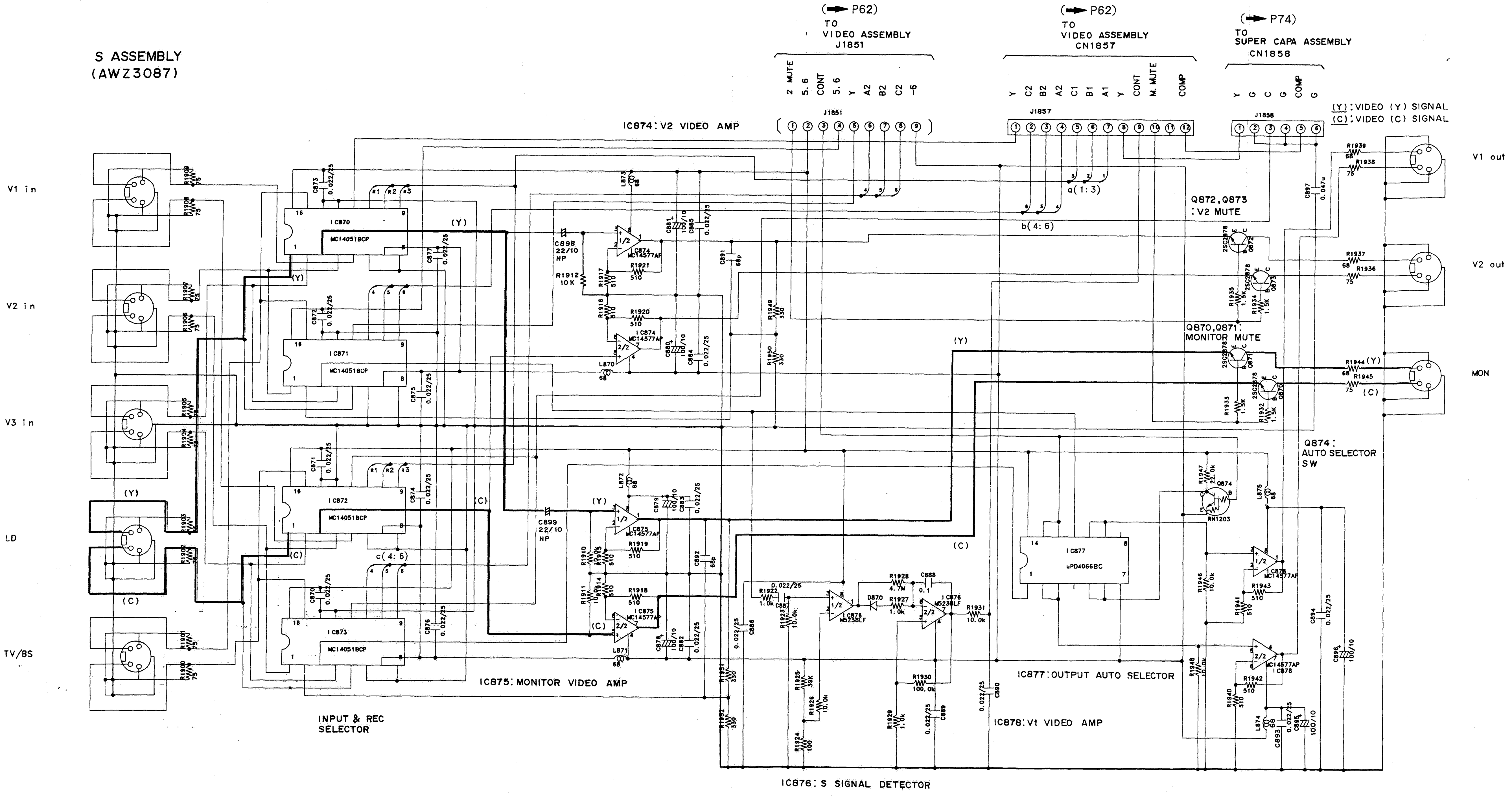

V1 OUT
V1 IN
V2 OUT
V2 IN
V3 IN
LD
TV/BS
MONO
TO
VIDEO ASSEMBLY
J1851
TO
VIDEO ASSEMBLY
CN857
TO
SUPER CAPA ASSEMBLY
CN1858
J1851
CN1858
AWZ 3087
3088
IC878 IC877 Q874 IC871
Q872
IC874 Q873 IC870
IC872 Q871 IC873 IC876
IC875 Q870

3.11 S. ASSEMBLY (AWZ3087)

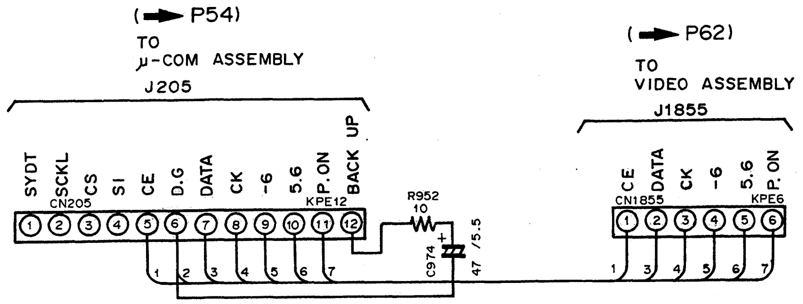
- View from component side

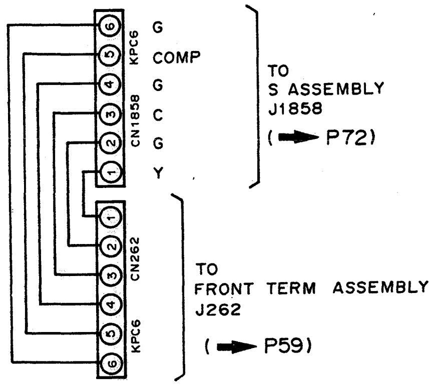

S. ASSEMBLY (AWZ3087)
TO VIDEO ASSEMBLY J1851
TO VIDEO ASSEMBLY CN857
TO SUPER CAPA ASSEMBLY CN1858
J1851
CN857
CN1858
CMK-77X
AWZ-3088
3087
V1 OUT
V1 IN
V2 OUT
V2 IN
V3 IN
LD
TV/BS
MONO
MUTE
COMP
CONT
IC871 IC877 Q874 IC878
Q872
IC870 IC874 Q873
IC876 IC873 IC872 Q871
IC875 Q870

3.11 S. ASSEMBLY (AWZ3087)

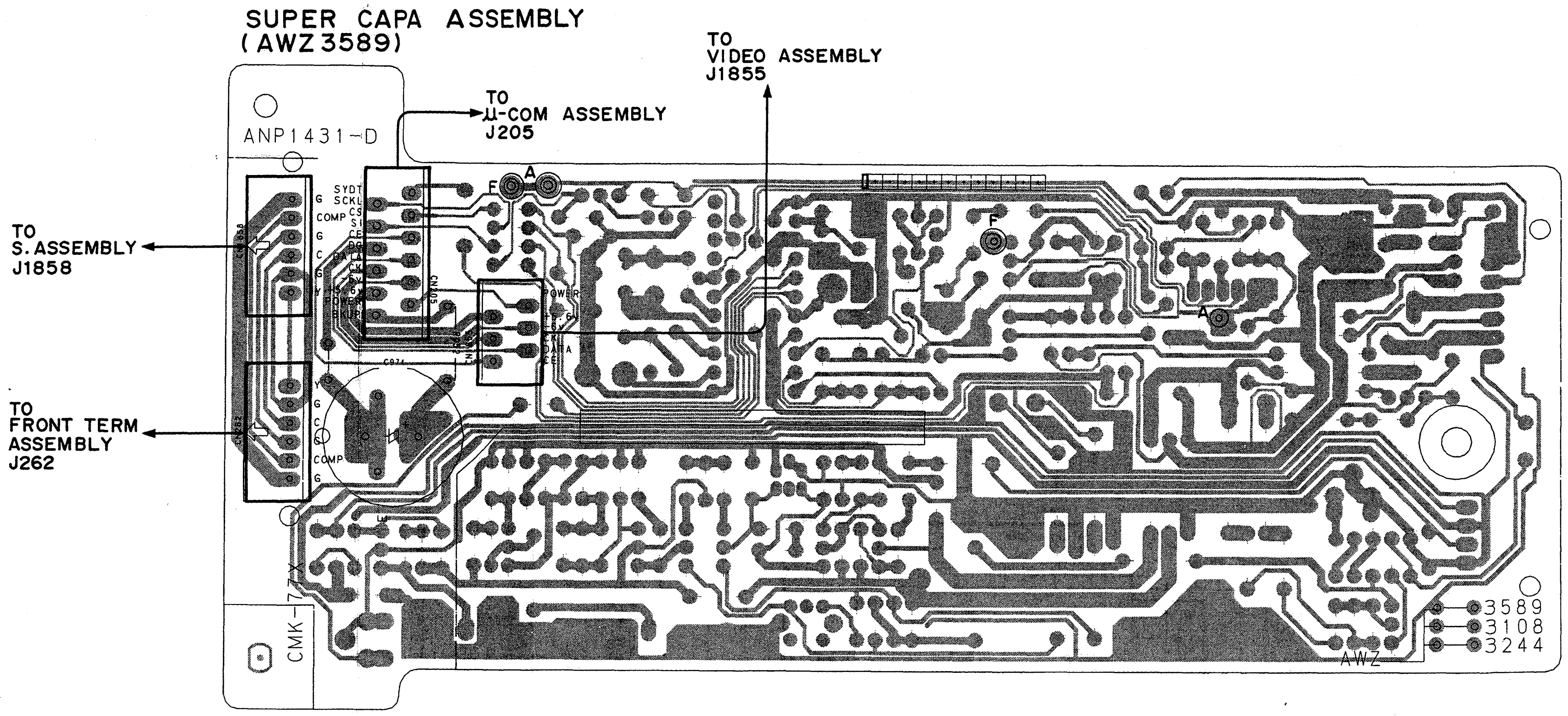

S ASSEMBLY
(AWZ3087)
V1 in
V2 in
V3 in
LD
TV/BS
V1 out
V2 out
MON
(➡ P62)
TO
VIDEO ASSEMBLY
J1851
(➡ P62)
TO
VIDEO ASSEMBLY
CN1857
(➡ P74)
TO
SUPER CAPA ASSEMBLY
CN1858
2 MUTE
5.6
CONT
5.6
Y
A2
B2
C2
-6
Y
C2
B2
A2
C1
B1
A1
Y
CONT
M. MUTE
COMP
Y
G
C
G
COMP
G
J1851
J1857
J1858
(Y): VIDEO (Y) SIGNAL
(C): VIDEO (C) SIGNAL
IC874: V2 VIDEO AMP
IC875: MONITOR VIDEO AMP
IC876: S SIGNAL DETECTOR
IC877: OUTPUT AUTO SELECTOR
IC878: V1 VIDEO AMP
INPUT & REC
SELECTOR
Q872, Q873
: V2 MUTE
Q870, Q871
MONITOR MUTE
Q874:
AUTO SELECTOR
SW
IC870
IC871
IC872
IC873
MC14051BCP
IC874
MC14577AF
IC875
MC14577AF
IC876
M5238LF
IC877
uPD4066BC
IC878
MC14577AF
2SC2878
RN1203
a(1:3)
b(4:6)
c(4:6)
C898
22/10
NP
C899
22/10
NP
R1912
10K
D870

3.12 SUPER CAPA ASSEMBLY (AWZ3589)

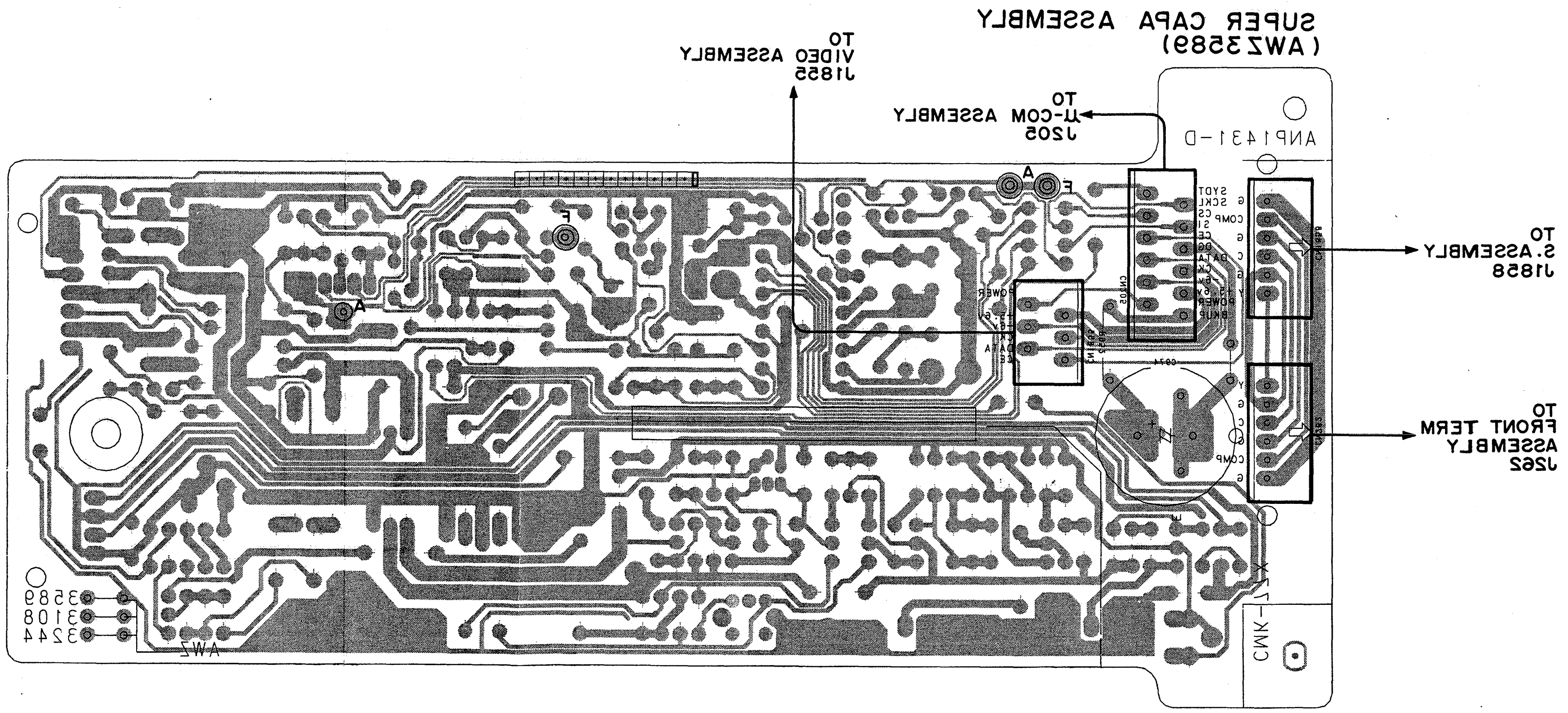

(➡ P54)
TO
µ-COM ASSEMBLY
J205
SYDT
SCKL
CS
SI
CE
D.G
DATA
CK
-6
5.6
P.ON
BACK UP
CN205
KPE12
1 2 3 4 5 6 7 8 9 10 11 12
R952
10
C974
47 /5.5
(➡ P62)
TO
VIDEO ASSEMBLY
J1855
CE
DATA
CK
-6
5.6
P.ON
CN1855
KPE6
1 2 3 4 5 6
1 2 3 4 5 6 7
1 3 4 5 6 7


KPC6
CN1858
G
COMP
G
C
G
Y
TO
S ASSEMBLY
J1858
(➡ P72)
CN262
KPC6
TO
FRONT TERM ASSEMBLY
J262
(➡ P59)

- View from component side

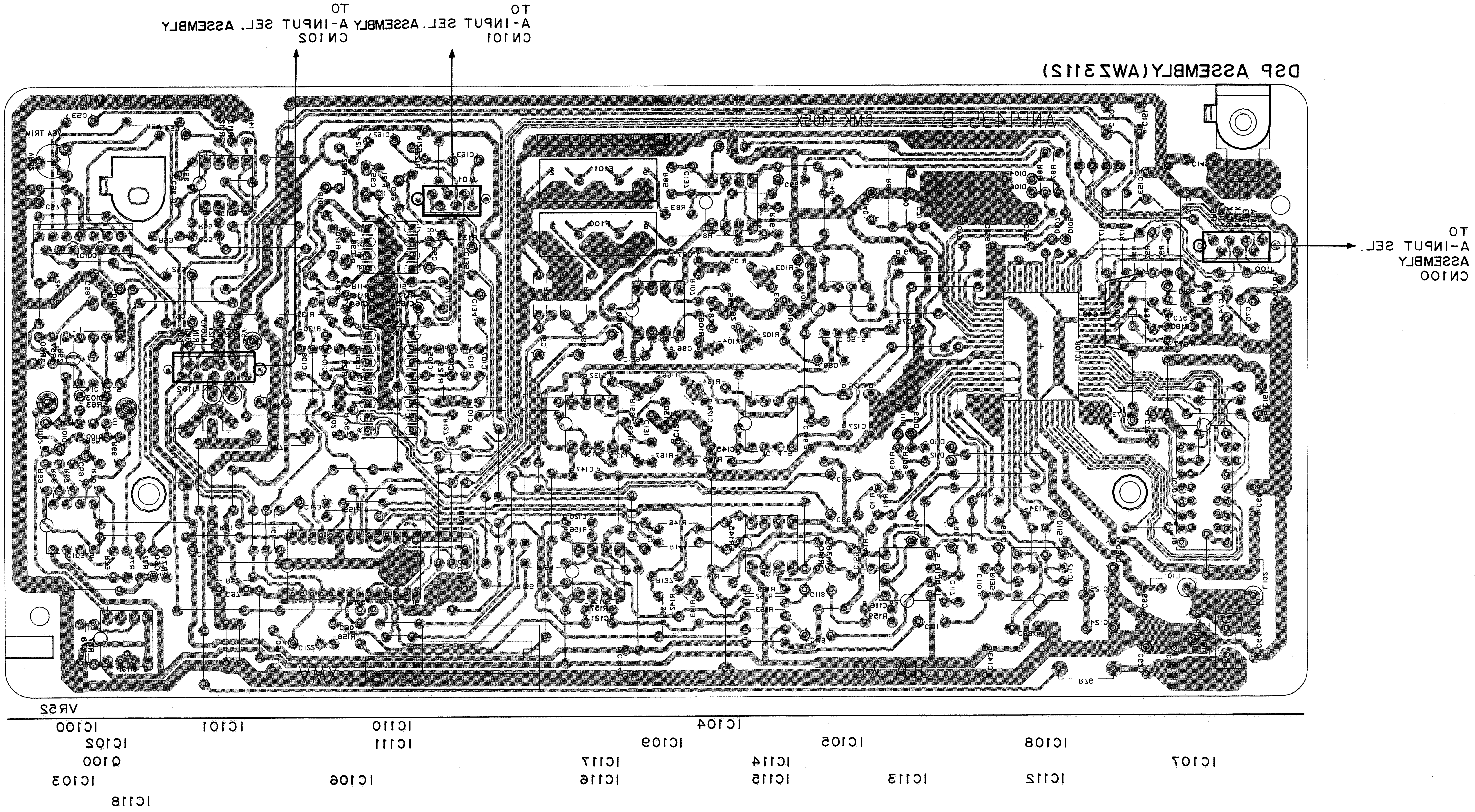

SUPER CAPA ASSEMBLY
(AWZ3589)
TO
µ-COM ASSEMBLY
J205
TO
VIDEO ASSEMBLY
J1855
TO
S.ASSEMBLY
J1858
TO
FRONT TERM
ASSEMBLY
J262
ANP1431-D
SYDT
SCKL
CS
SI
CE
DG
DATA
CK
-6V
+5.6V
POWER
BKUP
G
COMP
G
C
G
Y
CN1858
CN205
POWER
+5.6V
-6V
CK
DATA
CE
CN1855
C974
Y
G
C
G
COMP
G
CN262
A
F
F
A
CMK-77X
AWZ
3589
3108
3244

- View from soldering side


SUPER CAPA ASSEMBLY
(AWZ3589)
TO
VIDEO ASSEMBLY
J1855
TO
µ-COM ASSEMBLY
J205
TO
S.ASSEMBLY
J1858
TO
FRONT TERM
ASSEMBLY
J262
ANP1431-D
SYDT
SCKL
CS
SI
CE
DG
DATA
CK
-6V
+5.6V
POWER
BKUP
G
COMP
G
C
G
Y
CN205
CN1855
POWER
+5.6V
-6V
CK
DATA
CE
C974
Y
G
C
G
COMP
G
A
F
F
A
CMK-77X
AWZ
3589
3108
3244

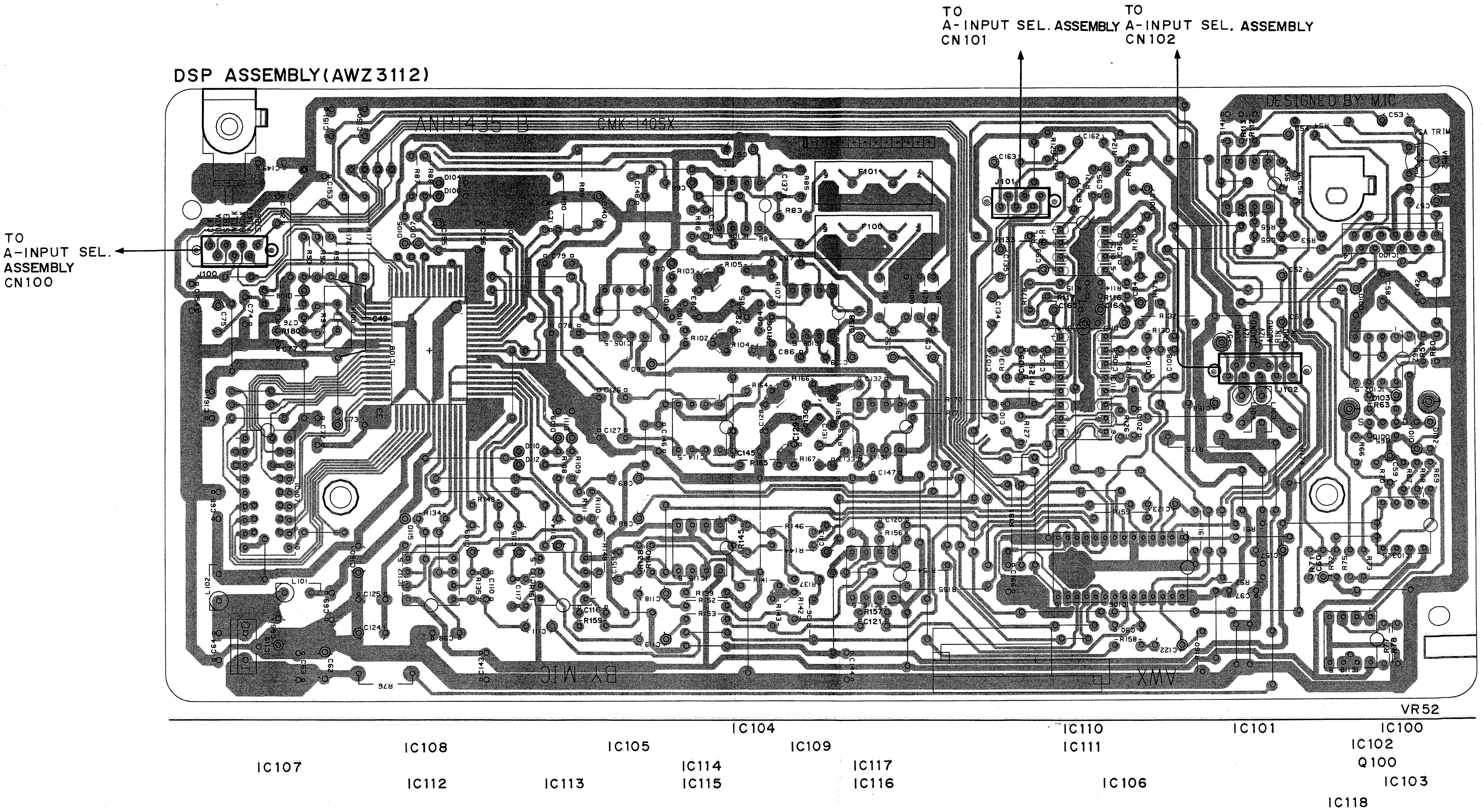
3.13 DSP ASSEMBLY (AWZ3112)

- View from soldering side

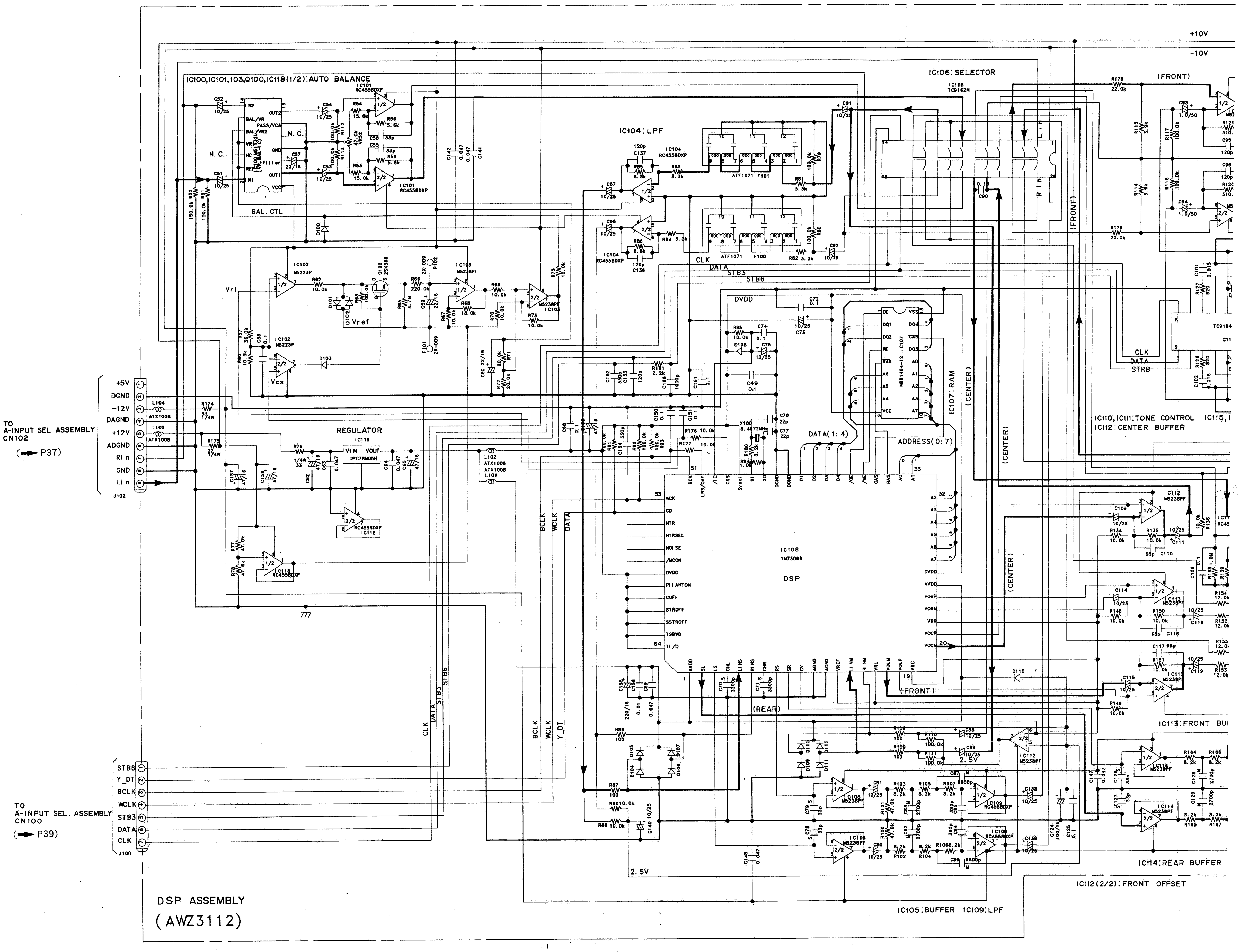

TO
A-INPUT SEL. ASSEMBLY
CN101
TO
A-INPUT SEL. ASSEMBLY
CN102
DSP ASSEMBLY (AWZ3112)
TO
A-INPUT SEL.
ASSEMBLY
CN100
ANP1435-B
CMK-1405X
DESIGNED BY MIC
BY MIC
AMX
VR52
IC100
IC102
Q100
IC103
IC118
IC101
IC110
IC111
IC106
IC104
IC109
IC117
IC116
IC105
IC114
IC115
IC113
IC108
IC112
IC107

3.13 DSP ASSEMBLY (AWZ3112)

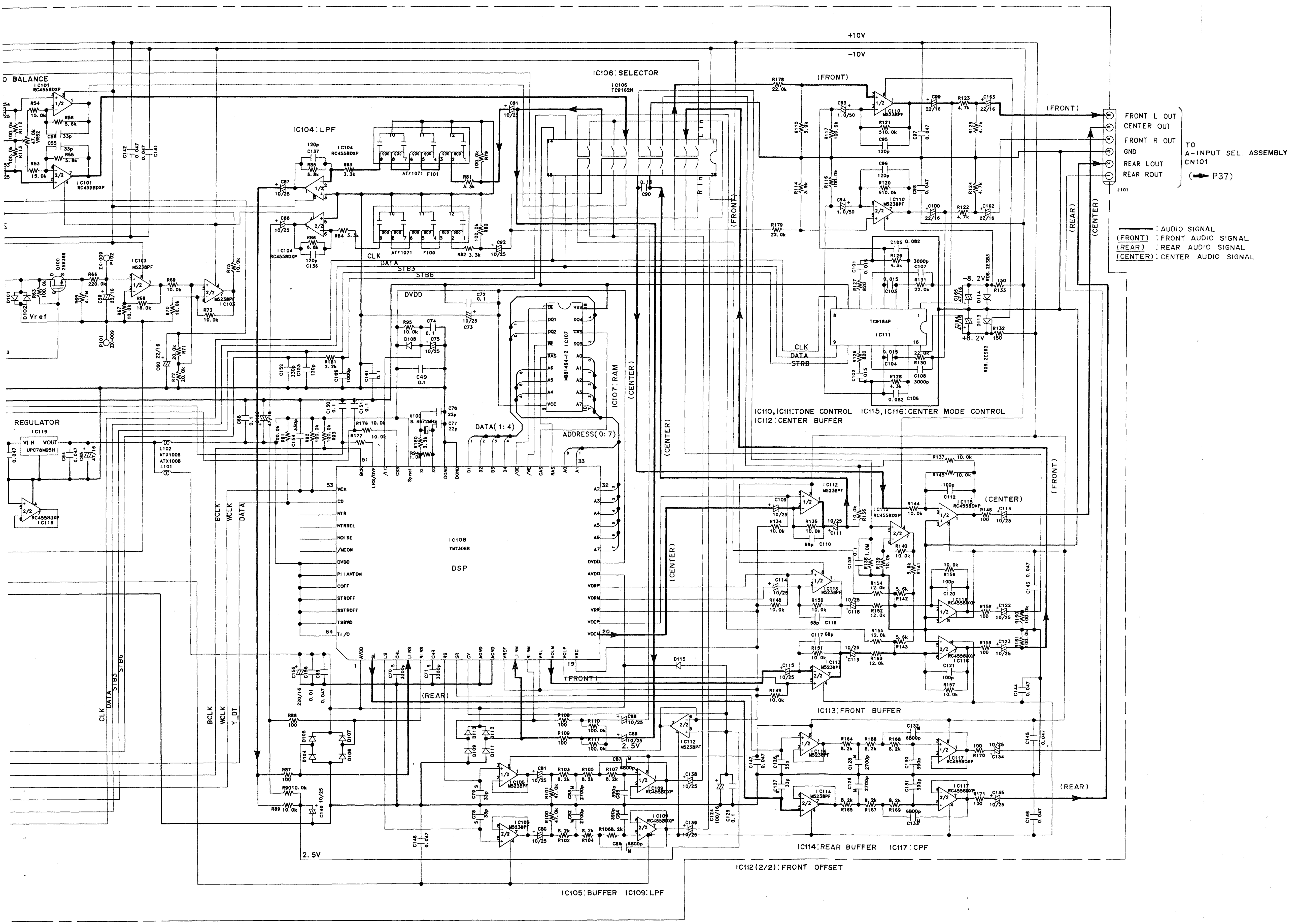
- View from component side


DSP ASSEMBLY(AWZ3112)
TO A-INPUT SEL. ASSEMBLY CN101
TO A-INPUT SEL. ASSEMBLY CN102
TO A-INPUT SEL. ASSEMBLY CN100
J100
J101
J102
ANP1435-B
CMK-140SX
DESIGNED BY MIC
BY MIC
AWX
F101
F100
VSA TRIM
VR52
IC104
IC110
IC101
IC100
IC108
IC105
IC109
IC111
IC102
IC107
IC114
IC117
Q100
IC112
IC113
IC115
IC116
IC106
IC103
IC118

3.13 DSP ASSEMBLY (AWZ3112)



+10V
-10V
IC100,IC101,103,Q100,IC118(1/2):AUTO BALANCE
IC106: SELECTOR
IC104: LPF
(FRONT)
BAL. CTL
N. C.
Vr l
Vref
Vcs
REGULATOR
IC119
UPC78M05H
TO A-INPUT SEL ASSEMBLY CN102
(➡ P37)
+5V
DGND
-12V
DAGND
+12V
ADGND
R i n
GND
L i n
J102
TO A-INPUT SEL. ASSEMBLY CN100
(➡ P39)
STB6
Y_DT
BCLK
WCLK
STB3
DATA
CLK
J100
CLK
DATA
STB3
STB6
DVDD
IC107: RAM
MB81464-12
(CENTER)
DATA(1:4)
ADDRESS(0:7)
IC108
YM7306B
DSP
(FRONT)
(REAR)
2.5V
IC110,IC111: TONE CONTROL
IC112: CENTER BUFFER
IC113: FRONT BUF
IC114: REAR BUFFER
IC112(2/2): FRONT OFFSET
IC105: BUFFER IC109: LPF
TC9184
CLK
DATA
STRB
DSP ASSEMBLY
(AWZ3112)


+10V
-10V
O BALANCE
IC101 RC4558DXP
IC104: LPF
IC104 RC4558DXP
ATF1071 F101
ATF1071 F100
IC106: SELECTOR
IC106 TC9162N
(FRONT)
FRONT L OUT
CENTER OUT
FRONT R OUT
GND
REAR LOUT
REAR ROUT
J101
TO A-INPUT SEL. ASSEMBLY CN101
(➡ P37)
: AUDIO SIGNAL
(FRONT) : FRONT AUDIO SIGNAL
(REAR) : REAR AUDIO SIGNAL
(CENTER) : CENTER AUDIO SIGNAL
IC103 M5238FP
Q100 2SK369
D101
D102
Vref
P101
P102
CLK
DATA
STB3
STB6
DVDD
IC107 M81464-12
IC107: RAM
REGULATOR
IC119 UPC78M05H
VIN VOUT
IC118 RC4558DXP
L101 ATX1008
L102 ATX1008
X100 8.4672MHz
DATA(1:4)
ADDRESS(0:7)
IC108 YM7306B
DSP
BCLK
WCLK
DATA
Y_DT
(CENTER)
(REAR)
IC110 M5238FP
IC111 TC9184P
IC110, IC111: TONE CONTROL
IC112: CENTER BUFFER
IC115, IC116: CENTER MODE CONTROL
-8.2V
+8.2V
IC112 M5238FP
IC113 M5238FP
IC115 RC4558DXP
IC116 RC4558DXP
IC113: FRONT BUFFER
IC114 M5238FP
IC117 RC4558DXP
IC114: REAR BUFFER IC117: CPF
IC112(2/2): FRONT OFFSET
IC105 M5238FP
IC109 RC4558DXP
IC105: BUFFER IC109: LPF
2.5V
D115

4. P.C.B's PARTS LIST

NOTES:

- Parts without part number cannot be supplied.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%)

560 Ω → 56×10^1 → 561 ································ RD1/4PS$\boxed{5}\boxed{6}\boxed{1}$J
47k Ω → 47×10^3 → 473 ································ RD1/4PS$\boxed{4}\boxed{7}\boxed{3}$J
0.5 Ω → 0R5 ······································ RN2H$\boxed{0}\boxed{R}\boxed{5}$K
1 Ω → 010 ······································ RS1P$\boxed{0}\boxed{1}\boxed{0}$K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω→ 562×10^1 →5621 ································ RN1/4SR$\boxed{5}\boxed{6}\boxed{2}\boxed{1}$F

⊙ FRONT POWER AMP ASSEMBLY (AWZ3098)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	Q350-353	TRANSISTOR	2SC1845
	Q354-357	TRANSISTOR	2SA1145
	Q358, 359	TRANSISTOR	2SC2705
	Q360, 361	TRANSISTOR	2SC3298
	Q362, 363	TRANSISTOR	2SA1306
	Q364, 365	TRANSISTOR	2SC2240
	Q366, 367	TRANSISTOR	2SC1845
	Q368	TRANSISTOR	2SA1145
	Q369	TRANSISTOR	2SC2705
	Q370	TRANSISTOR	2SA1145
	Q371	TRANSISTOR	2SA1306
	Q372	TRANSISTOR	2SC3298
	Q373	TRANSISTOR	2SC2240
	Q374, 375	TRANSISTOR	2SC2458
	D350-355	DIODE	1SS252
	D360-377	DIODE	1SS252

COILS/TRANSFORMERS

Mark	No.	Description	Part No.
	L352	COIL	ATH1011

CAPACITORS

Mark	No.	Description	Part No.
	C350, 351	CERAMIC CAPACITOR	CKCYB331K50
	C352, 353	CERAMIC CAPACITOR	CCCSL100D50
	C354, 355	CERAMIC CAPACITOR	CCCSL101J50
	C356, 357	ELECTR. CAPACITOR	CEAS330M50
	C362, 363	CERAMIC CAPACITOR	CCCSL820K500
	C364-367	CERAMIC CAPACITOR	CCCSL101K500
	C368, 369	ELECTR. CAPACITOR	CEANP010M50
	C370, 371	CERAMIC CAPACITOR	CKCYB471K50
	C372	ELECTR. CAPACITOR	CEAS101M10
	C373	CERAMIC CAPACITOR	CCCSL180K500
	C374	CERAMIC CAPACITOR	CCCSL220J50
	C376	CERAMIC CAPACITOR	CCCSL101J50
	C380, 381	CERAMIC CAPACITOR	CCCSL101K500
	C382	ELECTR. CAPACITOR	CEAS4R7M50
	C383	ELECTR. CAPACITOR	CEANP010M50
	C384	ELECTR. CAPACITOR	CEAS102M6
	C385, 386	ELECTR. CAPACITOR	CEHAQ4R7M2C
	C391	CERAMIC CAPACITOR	CKCYF103Z50
	C392, 393	MYLOR FILM CAPACITOR	CQMA104K50
	C394, 395	MYLOR FILM CAPACITOR	CQMA333K50

RESISTORS

Mark	No.	Description	Part No.
	R350, 351	CARBONFILM RESISTOR	RDR1/4PM□□□J
	R352, 353	CARBONFILM RESISTOR	RD1/4PM□□□J
	R354-359	CARBONFILM RESISTOR	RD1/8PM□□□J
⚠	R360-367	CARBONFILM RESISTOR	RD1/4PMF□□□J
⚠	R368-371	FUSLIBLE RESISTOR	RFA1/4PS□□□J
	R374, 375	CARBONFILM RESISTOR	RD1/4PM□□□J
⚠	R384-399	FUSLIBLE RESISTOR	RFA1/4PS□□□J
⚠	R404, 405	RESISTOR (0.27, 5W)	ACN1018
	R406, 407	CARBONFILM RESISTOR	RD1/4PMF□□□J
⚠	R408, 409	FUSLIBLE RESISTOR	RFA1/4PS□□□J
	R410, 411	CARBONFILM RESISTOR	RD1/8PM□□□J
	R412, 413	CARBONFILM RESISTOR	RD1/2PMF□□□J
	R414, 415	CARBONFILM RESISTOR	RD1/8PM□□□J
	R420, 421	CARBONFILM RESISTOR	RD1/8PM□□□J
⚠	R422, 423	CARBONFILM RESISTOR	RD1/4PMF□□□J
	R424-429	CARBONFILM RESISTOR	RD1/8PM□□□J
⚠	R430, 431	CARBONFILM RESISTOR	RD1/4PMF□□□J
⚠	R432, 433	FUSLIBLE RESISTOR	RFA1/4PS□□□J
⚠	R439-446	FUSLIBLE RESISTOR	RFA1/4PS□□□J
⚠	R449	RESISTOR (0.27, 5W)	ACN1018
	R450	CARBONFILM RESISTOR	RD1/4PMF□□□J
⚠	R451	FUSLIBLE RESISTOR	RFA1/4PS□□□J
	R452	CARBONFILM RESISTOR	RD1/8PM□□□J
	R453	CARBONFILM RESISTOR	RD1/2PMF□□□J
	R454, 455	CARBONFILM RESISTOR	RD1/8PM□□□J
⚠	R456	CARBONFILM RESISTOR	RD1/2PMFL□□□J
	R457-462	CARBONFILM RESISTOR	RD1/8PM□□□J

REAR POWER AMP (A) ASSEMBLY

CAPACITORS

Mark	No.	Description	Part No.
	C1502	CERAMIC CAPACITOR	CKMYB102K50
	C1504	ELECTR. CAPACITOR	CEAS2R2M50
	C1506	ELECTR. CAPACITOR	CEAS100M25
	C1508	CERAMIC CAPACITOR	CCMSL101J50
	C1510	CERAMIC CAPACITOR	CCMSL220J50
	C1512	ELECTR. CAPACITOR	CEAS330M25
	C1513, 1514	ELECTR. CAPACITOR	CEAS010M50
	C1518	AUDIO FILM CAPACITOR	CFTXA823J50
	C1520	AUDIO FILM CAPACITOR	CFTXA823J50
	C1522	CERAMIC CAPACITOR	CCMSL100D50
	C1524	CERAMIC CAPACITOR	CCMSL470J50

RESISTORS

Mark	No.	Description	Part No.
	R1502	CARBONFILM RESISTOR	RD1/8PM□□□J
	R1506	CARBONFILM RESISTOR	RD1/8PM□□□J
	R1508	CARBONFILM RESISTOR	RD1/8PM□□□J
	R1510	CARBONFILM RESISTOR	RD1/8PM□□□J
	R1512	CARBONFILM RESISTOR	RD1/8PM□□□J
⚠	R1514	CARBONFILM RESISTOR	RD1/4PMF□□□J
	R1518	CARBONFILM RESISTOR	RD1/8PM□□□J

REAR POWER AMP (B) ASSEMBLY

CAPACITORS

Mark	No.	Description	Part No.
	C1501	CERAMIC CAPACITOR	CKMYB102K50
	C1503	ELECTR. CAPACITOR	CEAS2R2M50
	C1505	ELECTR. CAPACITOR	CEAS100M25
	C1507	CERAMIC CAPACITOR	CCMSL101J50
	C1509	CERAMIC CAPACITOR	CCMSL220J50
	C1511	ELECTR. CAPACITOR	CEAS330M25
	C1515, 1516	ELECTR. CAPACITOR	CEAS010M50
	C1517	AUDIO FILM CAPACITOR	CFTXA823J50
	C1519	AUDIO FILM CAPACITOR	CFTXA823J50
	C1521	CERAMIC CAPACITOR	CCMSL100D50
	C1523	CERAMIC CAPACITOR	CCMSL470J50

RESISTORS

Mark	No.	Description	Part No.
	R1501	CARBONFILM RESISTOR	RD1/8PM□□□J
	R1505	CARBONFILM RESISTOR	RD1/8PM□□□J
	R1507	CARBONFILM RESISTOR	RD1/8PM□□□J
	R1509	CARBONFILM RESISTOR	RD1/8PM□□□J
	R1511	CARBONFILM RESISTOR	RD1/8PM□□□J
⚠	R1513	CARBONFILM RESISTOR	RD1/4PMF□□□J
	R1515-1517	CARBONFILM RESISTOR	RD1/8PM□□□J

TEMPERATURE COMPENSATION ASSEMBLY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	Q376, 377	TRANSISTOR	2SC2603

TEMPERATURE COMPENSATION ASSEMBLY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	Q378	TRANSISTOR	2SC2603

⊙ μ –COM ASSEMBLY (AWZ3817)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC201	ｶｲｶﾞｲ ｾﾝﾖｳ	PD4297B
	IC202-204	OUTPUT EXPANDER IC	PD0012A
	IC205	FL DRIVER IC	MSC7112-01SS
	Q201	TRANSISTOR	RN2203
	Q202	TRANSISTOR	RN1203
	Q203	TRANSISTOR	2SC2458
	Q204	TRANSISTOR	RN1203
	D201-204	DIODE	1SS252
	D205-208	LED(RED)	AEL1099
	D209-212	LED(RED, AMBER)	AEL1115
	D213-216	LED(RED)	AEL1099
	D218, 219	LED(RED)	AEL1099
	D222	LED(RED)	AEL1099
	D223	LED(RED, AMBER)	AEL1115
	D224	LED(RED)	AEL1099
	D225	LED(RED, AMBER)	AEL1115
	D226-231	LED(RED)	AEL1099
	D232	DIODE	11E2
	D233	DIODE	1SS252
	D234-240	ZENER DIODE	RD5.6ESB
	D241	DIODE	1SS252
	D242	ZENER DIODE	RD2.7ESB

SWITCHES

Mark	No.	Description	Part No.
	S205-207	SWITCH	ASG1029
	S216-218	SWITCH	ASG1029
	S221	SWITCH	ASG1029
	S223-227	SWITCH	ASG1029
	S230-235	SWITCH	ASG1029
	S238, 239	SWITCH	ASG1029
	S241, 242	SWITCH	ASG1029
	S245, 246	SWITCH	ASG1029
	S248	SWITCH	ASG1029
	S255, 256	SWITCH	ASG1029
	S590-597	SWITCH	ASG1029

CAPACITORS

Mark	No.	Description	Part No.
	C201	ELECTR. CAPACITOR	CEAS470M16
	C202	CERAMIC CAPACITOR	CKDYX103M25
	C203	CERAMIC CAPACITOR	CCMSL101J50
	C204	CERAMIC CAPACITOR	CKMYB102K50
	C205	CERAMIC CAPACITOR	CKDYF473Z50
	C206	CERAMIC CAPACITOR	CKMYB102K50
	C207	ELECTR. CAPACITOR	CEAS470M10
	C208	ELECTR. CAPACITOR	CEAS470M50
	C209	CERAMIC CAPACITOR	CKDYF223Z50
	C210	ELECTR. CAPACITOR	CEAS221M10
	C211	CEA (47000/5.5V)	ACH1037
	C212	CERAMIC CAPACITOR	CKCYF473Z50
	C213	ELECTR. CAPACITOR	CEAS330M16
	C214	ELECTR. CAPACITOR	CEAS470M10
	C215	CERAMIC CAPACITOR	CCDSL101J50
	C216	CERAMIC CAPACITOR	CKDYF473Z50

Mark	No.
	C50
	C217 CERAMI
	C218, 219 CE

RESISTORS

Mark	No.
	R201-203 CA
	R205-207 CA
	R209-220 CA
	R222-240 CA
	R241 CARBON
	R242-254 CA
	R255, 256 RE
	R257-260 CA
	R266 CARBON
	R591 CARBON
	R594-596 CA

OTHERS

Mark	No.
	REMOTE RECE
	V201 FL TUB
	X201 CERAMI

⊙ VR ASSEM

SEMICONDUCTO

Mark	No.
	IC1270-1272
	IC1273 MECH
	Q1272, 1273
	Q1275 TRANS
	Q1276 TRANS
	Q1278 TRANS
	Q1279, 1280

CAPACITORS

Mark	No.
	C1274, 1275
	C1276, 1277
	C1278 CERAMI
	C1279 CERAMI
	C1280 ELECT
	C1284, 1285 C
	C1286, 1287 C
	C1288, 1289 E
	C1293 ELECT
	C1294 ELECT
	C1296-1299 E

RESISTORS

Mark	No.
	R1270, 1271 C
	R1273, 1274 C
	R1279-1282 C
	R1285, 1286 C
	R1287, 1288 C
	R1294-1311 C
	R1316-1328 C
	R1329 FUSLIB
	R1330, 1331 C
	R1332-1335 C
	VR1270 VR(10

REAR POWER AMP (A) ASSEMBLY

CAPACITORS

Mark	No.	Description	Part No.
	C1502	CERAMIC CAPACITOR	CKMYB102K50
	C1504	ELECTR. CAPACITOR	CEAS2R2M50
	C1506	ELECTR. CAPACITOR	CEAS100M25
	C1508	CERAMIC CAPACITOR	CCMSL101J50
	C1510	CERAMIC CAPACITOR	CCMSL220J50
	C1512	ELECTR. CAPACITOR	CEAS330M25
	C1513, 1514	ELECTR. CAPACITOR	CEAS010M50
	C1518	AUDIO FILM CAPACITOR	CFTXA823J50
	C1520	AUDIO FILM CAPACITOR	CFTXA823J50
	C1522	CERAMIC CAPACITOR	CCMSL100D50
	C1524	CERAMIC CAPACITOR	CCMSL470J50

RESISTORS

Mark	No.	Description	Part No.
	R1502	CARBONFILM RESISTOR	RD1/8PM□□□J
	R1506	CARBONFILM RESISTOR	RD1/8PM□□□J
	R1508	CARBONFILM RESISTOR	RD1/8PM□□□J
	R1510	CARBONFILM RESISTOR	RD1/8PM□□□J
	R1512	CARBONFILM RESISTOR	RD1/8PM□□□J
⚠	R1514	CARBONFILM RESISTOR	RD1/4PMF□□□J
	R1518	CARBONFILM RESISTOR	RD1/8PM□□□J

REAR POWER AMP (B) ASSEMBLY

CAPACITORS

Mark	No.	Description	Part No.
	C1501	CERAMIC CAPACITOR	CKMYB102K50
	C1503	ELECTR. CAPACITOR	CEAS2R2M50
	C1505	ELECTR. CAPACITOR	CEAS100M25
	C1507	CERAMIC CAPACITOR	CCMSL101J50
	C1509	CERAMIC CAPACITOR	CCMSL220J50
	C1511	ELECTR. CAPACITOR	CEAS330M25
	C1515, 1516	ELECTR. CAPACITOR	CEAS010M50
	C1517	AUDIO FILM CAPACITOR	CFTXA823J50
	C1519	AUDIO FILM CAPACITOR	CFTXA823J50
	C1521	CERAMIC CAPACITOR	CCMSL100D50
	C1523	CERAMIC CAPACITOR	CCMSL470J50

RESISTORS

Mark	No.	Description	Part No.
	R1501	CARBONFILM RESISTOR	RD1/8PM□□□J
	R1505	CARBONFILM RESISTOR	RD1/8PM□□□J
	R1507	CARBONFILM RESISTOR	RD1/8PM□□□J
	R1509	CARBONFILM RESISTOR	RD1/8PM□□□J
	R1511	CARBONFILM RESISTOR	RD1/8PM□□□J
⚠	R1513	CARBONFILM RESISTOR	RD1/4PMF□□□J
	R1515-1517	CARBONFILM RESISTOR	RD1/8PM□□□J

TEMPERATURE COMPENSATION ASSEMBLY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	Q376, 377	TRANSISTOR	2SC2603

TEMPERATURE COMPENSATION ASSEMBLY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	Q378	TRANSISTOR	2SC2603

⊙ μ -COM ASSEMBLY (AWZ3817)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC201	ｶｲｶﾞｲ ｾﾝﾖｳ	PD4297B
	IC202-204	OUTPUT EXPANDER IC	PD0012A
	IC205	FL DRIVER IC	MSC7112-01SS
	Q201	TRANSISTOR	RN2203
	Q202	TRANSISTOR	RN1203
	Q203	TRANSISTOR	2SC2458
	Q204	TRANSISTOR	RN1203
	D201-204	DIODE	1SS252
	D205-208	LED(RED)	AEL1099
	D209-212	LED(RED, AMBER)	AEL1115
	D213-216	LED(RED)	AEL1099
	D218, 219	LED(RED)	AEL1099
	D222	LED(RED)	AEL1099
	D223	LED(RED, AMBER)	AEL1115
	D224	LED(RED)	AEL1099
	D225	LED(RED, AMBER)	AEL1115
	D226-231	LED(RED)	AEL1099
	D232	DIODE	11E2
	D233	DIODE	1SS252
	D234-240	ZENER DIODE	RD5. 6ESB
	D241	DIODE	1SS252
	D242	ZENER DIODE	RD2. 7ESB

SWITCHES

Mark	No.	Description	Part No.
	S205-207	SWITCH	ASG1029
	S216-218	SWITCH	ASG1029
	S221	SWITCH	ASG1029
	S223-227	SWITCH	ASG1029
	S230-235	SWITCH	ASG1029
	S238, 239	SWITCH	ASG1029
	S241, 242	SWITCH	ASG1029
	S245, 246	SWITCH	ASG1029
	S248	SWITCH	ASG1029
	S255, 256	SWITCH	ASG1029
	S590-597	SWITCH	ASG1029

CAPACITORS

Mark	No.	Description	Part No.
	C201	ELECTR. CAPACITOR	CEAS470M16
	C202	CERAMIC CAPACITOR	CKDYX103M25
	C203	CERAMIC CAPACITOR	CCMSL101J50
	C204	CERAMIC CAPACITOR	CKMYB102K50
	C205	CERAMIC CAPACITOR	CKDYF473Z50
	C206	CERAMIC CAPACITOR	CKMYB102K50
	C207	ELECTR. CAPACITOR	CEAS470M10
	C208	ELECTR. CAPACITOR	CEAS470M50
	C209	CERAMIC CAPACITOR	CKDYF223Z50
	C210	ELECTR. CAPACITOR	CEAS221M10
	C211	CEA (47000/5. 5V)	ACH1037
	C212	CERAMIC CAPACITOR	CKCYF473Z50
	C213	ELECTR. CAPACITOR	CEAS330M16
	C214	ELECTR. CAPACITOR	CEAS470M10
	C215	CERAMIC CAPACITOR	CCDSL101J50
	C216	CERAMIC CAPACITOR	CKDYF473Z50

Mark	No.	Description	Part No.
	C50		CKPUYF473Z16
	C217	CERAMIC CAPACITOR	CKMYB102K50
	C218, 219	CERAMIC CAPACITOR	CCDCH101J50

RESISTORS

Mark	No.	Description	Part No.
	R201-203	CARBONFILM RESISTOR	RD1/8PM□□□J
	R205-207	CARBONFILM RESISTOR	RD1/8PM□□□J
	R209-220	CARBONFILM RESISTOR	RD1/8PM□□□J
	R222-240	CARBONFILM RESISTOR	RD1/8PM□□□J
	R241	CARBONFILM RESISTOR	RD1/4PMF□□□J
	R242-254	CARBONFILM RESISTOR	RD1/8PM□□□J
	R255, 256	RESISTOR ARRAY (82K)	RA8S□□□J
	R257-260	CARBONFILM RESISTOR	RD1/8PM□□□J
	R266	CARBONFILM RESISTOR	RD1/8PM□□□J
	R591	CARBONFILM RESISTOR	RD1/8PM□□□J
	R594-596	CARBONFILM RESISTOR	RD1/8PM□□□J

OTHERS

Mark	No.	Description	Part No.
		REMOTE RECEIVER UNIT	AXX1010
	V201	FL TUBE	AAV1109
	X201	CERAMIC RESONATOR	ASS1034

⊙ VR ASSEMBLY (AWZ3106)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC1270-1272	OP AMP	M5238LF
	IC1273	MECHANISM DRIVER IC	TA7291S
	Q1272, 1273	TRANSISTOR	2SC2878
	Q1275	TRANSISTOR	2SA1048
	Q1276	TRANSISTOR	2SC2878
	Q1278	TRANSISTOR	2SA1048
	Q1279, 1280	TRANSISTOR	RN1203

CAPACITORS

Mark	No.	Description	Part No.
	C1274, 1275	MICA CAPACITOR	CMA220J500
	C1276, 1277	ELECTR. CAPACITOR	CEYA3R3M50
	C1278	CERAMIC CAPACITOR	CCCSL220J50
	C1279	CERAMIC CAPACITOR	CCDSL101J50
	C1280	ELECTR. CAPACITOR	CEAS2R2M50
	C1284, 1285	CERAMIC CAPACITOR	CCCSL220J50
	C1286, 1287	CERAMIC CAPACITOR	CKCYB331K50
	C1288, 1289	ELECTR. CAPACITOR	CEAS010M50
	C1293	ELECTR. CAPACITOR	CEAS100M25
	C1294	ELECTR. CAPACITOR	CEAS470M16
	C1296-1299	ELECTR. CAPACITOR	CEAS470M16

RESISTORS

Mark	No.	Description	Part No.
	R1270, 1271	CARBONFILM RESISTOR	RDR1/4PM□□□J
	R1273, 1274	CARBONFILM RESISTOR	RD1/8PM□□□J
	R1279-1282	CARBONFILM RESISTOR	RDR1/4PM□□□J
	R1285, 1286	CARBONFILM RESISTOR	RD1/4PM□□□J
	R1287, 1288	CARBONFILM RESISTOR	RD1/8PM□□□J
	R1294-1311	CARBONFILM RESISTOR	RD1/8PM□□□J
	R1316-1328	CARBONFILM RESISTOR	RD1/8PM□□□J
	R1329	FUSLIBLE RESISTOR	RFA1/4PS□□□J
	R1330, 1331	CARBONFILM RESISTOR	RD1/8PM□□□J
	R1332-1335	CARBONFILM RESISTOR	RD1/4PMF□□□J
	VR1270	VR(100K)	ACX1041

OTHERS

Mark	No.	Description	Part No.
	CN203	CONNECTOR(7P)	KPE7
	CN350	JUMPER CONNECTOR	KPC6

FRONT TERM ASSEMBLY

CAPACITORS

Mark	No.	Description	Part No.
	C263	CERAMIC CAPACITOR	CKCYF473Z50

RESISTORS

Mark	No.	Description	Part No.
	R263-265	CARBONFILM RESISTOR	RD1/8PM□□□J

OTHERS

Mark	No.	Description	Part No.
		PIN JACK(1P)	AKB1082
		SOCKET(4P. DIN)	AKP1067

POWER SUPPLY (REG) ASSEMBLY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC551	REGULATOR IC	M5F78M12L
	IC554	REGULATOR IC	M5F79M12L

⊙ POWER SUPPLY (POWER) ASSEMBLY (AWZ3587)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC552	REGULATOR IC	NJM78M56FAS
	IC553	REGULATOR IC	NJM79M05FA
	Q551	TRANSISTOR	2SA1515
	Q552	TRANSISTOR	2SC3377
	Q553	TRANSISTOR	2SC2603
	Q554	TRANSISTOR	RN2203
	Q555, 556	TRANSISTOR	2SC2603
	Q557	TRANSISTOR	2SA1515
	Q558	TRANSISTOR	RN1203
	Q559	TRANSISTOR	2SC2458
	Q560-562	TRANSISTOR	2SC2603
	Q563	TRANSISTOR	2SC2458
	Q564	TRANSISTOR	2SA1048
	Q565	TRANSISTOR	RN2201
	D550-557	DIODE	11E2
	D558-561	DIODE	1SS252
	D562	ZENER DIODE	HZS5BLL
⚠	D563-566	DIODE	30D2FC-2
⚠	D571	DIODE	RB402
	D572, 573	DIODE	11E2
	D574	DIODE	1SS252
	D576	ZENER DIODE	RD5. 6ESB
	D577-582	DIODE	1SS252

RELAYS

Mark	No.	Description	Part No.
⚠	RY550	RELAY	ASR1027

CAPACITORS

Mark	No.	Description	Part No.
	C550, 551	CERAMIC CAPACITOR	CKDYF103Z50
	C552	ELECTR. CAPACITOR	CEAS222M16
	C553, 554	ELECTR. CAPACITOR	CEAS332M16
	C555	ELECTR. CAPACITOR	CEHAQ222M16
	C556	ELECTR. CAPACITOR	CEAS332M16
	C559	ELECTR. CAPACITOR	CEAS470M25

Mark	No.	Description	Part No.
	C560	ELECTR. CAPACITOR	CEAS470M16
	C561, 562	ELECTR. CAPACITOR	CEHAQ101M10
	C563	ELECTR. CAPACITOR	CEHAQ470M25
	C564	ELECTR. CAPACITOR	CEAS470M16
	C565	CERAMIC CAPACITOR	CKDYF103Z50
	C566, 567	ELECTR. CAPACITOR	CEAS101M63
⚠	C568, 569	CKA (0.01/AC250V)	ACG1005
⚠	C570, 571	CEA (4700/35V)	ACH1171
	C572	ELECTR. CAPACITOR	CEAS4R7M50
⚠	C573, 574	CKA (0.01/AC400V)	ACG1002
	C575	ELECTR. CAPACITOR	CEAS220M25
	C576	ELECTR. CAPACITOR	CEAS100M25
	C577	ELECTR. CAPACITOR	CEAS6R8M50

RESISTORS

⚠	R552-554	CARBONFILM RESISTOR	RD1/4PMF□□□J
⚠	R555	CARBONFILM RESISTOR	RD1/4PMFL□□□J
⚠	R556	CARBONFILM RESISTOR	RD1/4PMF□□□J
⚠	R557	CARBONFILM RESISTOR	RD1/2PMF□□□J
	R558, 559	CARBONFILM RESISTOR	RD1/8PM□□□J
	R560, 561	CARBONFILM RESISTOR	RD1/2PM□□□J
⚠	R562, 563	FUSLIBLE RESISTOR	RFA1/4PS□□□J
	R564-566	CARBONFILM RESISTOR	RD1/2PMF□□□J
⚠	R567	CARBONFILM RESISTOR	RD1/4PMF□□□J
	R568, 569	CARBONFILM RESISTOR	RD1/8PM□□□J
	R570	CARBONFILM RESISTOR	RD1/4PM□□□J
	R571	CARBONFILM RESISTOR	RD1/8PM□□□J
⚠	R572	CARBONFILM RESISTOR	RD1/2PMF□□□J
	R573-575	CARBONFILM RESISTOR	RD1/8PM□□□J
⚠	R579	CARBONFILM RESISTOR	RD1/4PMF□□□J
⚠	R583	METAL OXIDE RESISTOR	RS2LMF□□□J
	R584	CARBONFILM RESISTOR	RD1/8PM□□□J
⚠	R585	CARBONFILM RESISTOR	RD1/4PMF□□□J
	R586	CARBONFILM RESISTOR	RD1/8PM□□□J
	R587, 588	CARBONFILM RESISTOR	RD1/4PMF□□□J
⚠	R589	METAL OXIDE RESISTOR	RS2LMF□□□J
	R598, 599	CARBONFILM RESISTOR	RD1/8PM□□□J

OTHERS

		SCREW	ABA-298
	CN201	CONNECTOR (15P)	KPE15
	CN351	CONNECTOR (4P)	KPE4
	CN1531	CONNECTOR (7P)	KPE7
	CN1601	CONNECTOR (9P)	KPE9

⊙ FRONT SP TERM ASSEMBLY (AWZ3092)

SEMICONDUCTORS

	D531, 532	DIODE	1SS252
	D534	DIODE	1SS252

RELAYS

	RY531	RELAY	ASR-112
	RY533	RELAY	ASR1005

COILS/TRANSFORMERS

	L531, 532	COIL	ATH1011

CAPACITORS

Mark	No.	Description	Part No.
	C531-534	AUDIO FILM CAPACITOR	CFTXA154J50

RESISTORS

	R531, 532	METAL OXIDE RESISTOR	RS1LMF□□□J
	R533, 534	CARBONFILM RESISTOR	RD1/2PMFL□□□J
	R535	FUSLIBLE RESISTOR	RFA1/4PS□□□J
	R539	METAL OXIDE RESISTOR	RS2LMF□□□J
	R541	METAL OXIDE RESISTOR	RS2LMF□□□J
	R542, 543	CARBONFILM RESISTOR	RD1/4PMFL□□□J

OTHERS

		SPEAKER TERMINAL (8-P)	AKE1011
		JACK (2-P)	AKN1006

HEADPHONE ASSEMBLY

OTHERS

		JACK	AKN1022

⊙ A-INPUT SEL ASSEMBLY (AWZ3590)

SEMICONDUCTORS

	IC601	OP-AMP-IC	M5220P
	IC603	E-SW IC	TC9163N
	IC605, 606	OP AMP	M5238PF
	IC609	OP AMP	M5238PF
	IC610-612	E-VR IC	TC9154AP
	IC613-617		RC4558DXP
	IC618	E-SW IC	TC9164N
	IC620		RC4558DXP
	Q601-604	N-FET	2SK373
	Q605, 606	TRANSISTOR	2SC2240
	Q607-610	TRANSISTOR	2SA970
	Q611, 612	TRANSISTOR	2SC2240
	Q625	TRANSISTOR	RN2203
	Q626	TRANSISTOR	2SA1048
	Q627	TRANSISTOR	2SC2878
	Q628	TRANSISTOR	RN1203
	Q629, 630	TRANSISTOR	2SC2458
	Q631, 632	TRANSISTOR	2SA1038
	Q633	TRANSISTOR	2SA1048
	Q634, 635	N-FET	2SK373
	D601-612, 619, 620	DIODE	1SS252
	D627-632	DIODE	1SS252
	D635, 636	DIODE	1SS252
	D640-643	DIODE	1SS252
	D645, 646	ZENER DIODE	RD5.6ESB2
	D647, 648	DIODE	1SS252
	D701-704	DIODE	1SS252
	D705, 706	DIODE	11E2
	D707-710	DIODE	1SS252

CAPACITORS

	C600	CERAMIC CAPACITOR	CKDYB103K50
	C603, 604	ELECTR. CAPACITOR	CEAS100M25
	C605, 606	CERAMIC CAPACITOR	CCCSL221J50
	C607	CERAMIC CAPACITOR	CCDSL101J50
	C608	CERAMIC CAPACITOR	CCCSL101J50

Mark	No.	Description	Part No.
	C609,610	ELECTR.CAPACITOR	CEAS470M16
	C611,612	MYLOR FILM CAPACITOR	CQMA222J50
	C613,614	MYLOR FILM CAPACITOR	CQMA822J50
	C615,616	ELECTR.CAPACITOR	CEAS2R2M50
	C617,618	ELECTR.CAPACITOR	CEAS101M16
	C683,684	CERAMIC CAPACITOR	CCCSL330J50
	C691,692	ELECTR.CAPACITOR	CEYA220M16
	C695,696	CERAMIC CAPACITOR	CCCSL680K500
	C697,698	ELECTR.CAPACITOR	CEAS100M25
	C703,704	ELECTR.CAPACITOR	CEASR47M50
	C707	ELECTR.CAPACITOR	CEASR47M50
	C711	AUDIO FILM CAPACITOR	CFTXA823J50
	C712	MYLOR FILM CAPACITOR	CQMA272J50
	C713,714	AUDIO FILM CAPACITOR	CFTXA473J50
	C715	ELECTR.CAPACITOR	CEAS101M10
	C716	ELECTR.CAPACITOR	CEAS100M25
	C717,718	CERAMIC CAPACITOR	CKCYF103Z50
	C719	ELECTR.CAPACITOR	CEAS220M50
	C720	ELECTR.CAPACITOR	CEAS4R7M50
	C721	ELECTR.CAPACITOR	CEASR68M50
	C722	ELECTR.CAPACITOR	CEASR47M50
	C723	AUDIO FILM CAPACITOR	CFTXA683J50
	C724	AUDIO FILM CAPACITOR	CFTXA394J50
	C725	AUDIO FILM CAPACITOR	CFTXA273J50
	C726,727	CERAMIC CAPACITOR	CKDYB102K50
	C729	CERAMIC CAPACITOR	CEAS100M50
	C731,732	MICA CAPACITOR	CMA150J500
	C733,734	CERAMIC CAPACITOR	CCCSL150K500
	C735,736	CERAMIC CAPACITOR	CKCYB222K50
	C737	AUDIO FILM CAPACITOR	CFTXA104J50
	C738	CERAMIC CAPACITOR	CKCYF103Z50
	C739,740	ELECTR.CAPACITOR	CEAS220M16
	C741,742	AUDIO FILM CAPADITOR	CFTXA334J50
	C743,744	ELECTR.CAPACITOR	CEAS220M25
	C802	MYLOR FILM CAPACITOR	CQMA104K50
	C803	ELECTR.CAPACITOR	CEASR68M50
	C805,806	ELECTR.CAPACITOR	CEAS470M16
	C812-814	CERAMIC CAPACITOR	CKDYB102K50
	C816	ELECTR.CAPACITOR	CEAS010M100
	C817,818	ELECTR.CAPACITOR	CEAS220M16
	C819,820	ELECTR.CAPACITOR	CEAS4R7M50
	C823,824	CERAMIC CAPACITOR	CKCYX473M25
	C829,830	CERAMIC CAPACITOR	CKDYX473M25
	C831	MYLOR FILM CAPACITOR	CQMA473J50
	C1699,1700	ELECTR.CAPACITOR	CEAS2R2M50
	C1705	ELECTR.CAPACITOR	CEAS2R2M50

RESISTORS

Mark	No.	Description	Part No.
	R600-612	CARBONFILM RESISTOR	RD1/8PM□□□J
	R615-618	CARBONFILM RESISTOR	RD1/8PM□□□J
	R619,620	CARBONFILM RESISTOR	RD1/4PMF□□□J
	R621-650	CARBONFILM RESISTOR	RD1/8PM□□□J
	R681,682	CARBONFILM RESISTOR	RD1/2PM□□□J
	R691-698	CARBONFILM RESISTOR	RD1/8PM□□□J
	R701-704	CARBONFILM RESISTOR	RD1/8PM□□□J
	R709,710	CARBONFILM RESISTOR	RD1/8PM□□□J
	R713-742	CARBONFILM RESISTOR	RD1/8PM□□□J
	R745-748	CARBONFILM RESISTOR	RD1/8PM□□□J
	R769-772	CARBONFILM RESISTOR	RD1/8PM□□□J
	R774	CARBONFILM RESISTOR	RD1/8PM□□□J
	R783,784	CARBONFILM RESISTOR	RD1/8PM□□□J
	R787-794	CARBONFILM RESISTOR	RD1/8PM□□□J
	R795-814	CARBONFILM RESISTOR	RD1/8PM□□□J
	R825-835	CARBONFILM RESISTOR	RD1/8PM□□□J
	R847-849	CARBONFILM RESISTOR	RD1/8PM□□□J
	R1601-1612	CARBONFILM RESISTOR	RD1/8PM□□□J
	R1621-1638	CARBONFILM RESISTOR	RD1/8PM□□□J
	R1640-1644	CARBONFILM RESISTOR	RD1/8PM□□□J
	R1743,1744	CARBONFILM RESISTOR	RD1/8PM□□□J
	R1749,1750	CARBONFILM RESISTOR	RD1/8PM□□□J
	R1773	CARBONFILM RESISTOR	RD1/8PM□□□J
	R1775,1776	CARBONFILM RESISTOR	RD1/8PM□□□J

OTHERS

Mark	No.	Description	Part No.
		PIN JACK(4P)	AKB1101
		PIN JACK(6P)	AKB1129
		PIN JACK(6P)	AKB1138
	CN100	CONNECTOR(7P)	KPE7
	CN101	CONNECTOR(6P)	KPE6
	CN102	CONNECTOR(9P)	KPE9
	CN204	CONNECTOR(14P)	KPE14
	CN270	CONNECTOR(11P)	KPE11

⊙ AV–INPUT SEL ASSEMBLY (AWZ3591)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC651	E-SW IC	TC9162N
	IC652	E-SW IC	TC9163N

CAPACITORS

Mark	No.	Description	Part No.
	C679,680	ELECTR.CAPACITOR	CEAS470M16
	C728	CERAMIC CAPACITOR	CKDYB102K50
	C821,822	CERAMIC CAPACITOR	CKCYX473M25

RESISTORS

Mark	No.	Description	Part No.
	R651-680	CARBONFILM RESISTOR	RD1/8PM□□□J
	R683-686	CARBONFILM RESISTOR	RD1/8PM□□□J
	R1639	CARBONFILM RESISTOR	RD1/8PM□□□J

OTHERS

Mark	No.	Description	Part No.
		PIN JACK(6P)	AKB1140
		PIN JACK(8P)	AKB1144

⊙ REAR SP TERM ASSEMBLY (AWZ3592)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	D535	DIODE	1SS252

SWITCHES

Mark	No.	Description	Part No.
	S533	VOLTAGE SELECTOR	AKX1033

RELAYS

Mark	No.	Description	Part No.
	RY532	RELAY	ASR-112
	RY534	RELAY	ASR1005

COILS/TRANSFORMERS

Mark	No.	Description	Part No.
	L533,534	COIL	ATH1011

CAPACITORS

Mark	No.	Description	Part No.
	C535,536	AUDIO FILM CAPACITOR	CFTXA823J50

Mark	No.	Description	Part No.
	C542	ELECTR. CAPACITOR	CEANP4R7M50
	C543	ELECTR. CAPACITOR	CEANP010M50

RESISTORS

Mark	No.	Description	Part No.
	R1503, 1504	CARBONFILM RESISTOR	RD1/4PMFL□□□J
	R1505-1519	CARBONFILM RESISTOR	RD1/8PM□□□J

OTHERS

Mark	No.	Description	Part No.
	CN1	PIN JACK (3P)	AKB1165
	CN2	PIN JACK (3P)	AKB1166
	CN3	SPEAKER TERMINAL (4-P)	PAKE1029
	CN1533	CONNECTOR (8P)	KPE8

⊙ S. ASSEMBLY (AWZ3087)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC870-873		MC14051BCP
	IC874, 875		MC14577AP
	IC876	OP AMP	M5238LF
	IC877	LOGIC IC	UPD4066BC
	IC878		MC14577AP
	Q870-873	TRANSISTOR	2SC2878
	Q874	TRANSISTOR	RN1203
	D870	DIODE	1SS252

COILS/TRANSFORMERS

Mark	No.	Description	Part No.
	L870-875	AXIAL INDUCTOR	LAU680K

CAPACITORS

Mark	No.	Description	Part No.
	C870-877		CKPUYF223Z25
	C878-881	ELECTR. CAPACITOR	CEAS101M10
	C882-887		CKPUYF223Z25
	C888	CERAMIC CAPACITOR	CKDYX104M25
	C889, 890		CKPUYF223Z25
	C891, 892	CERAMIC CAPACITOR	CCDSL680J50
	C893, 894		CKPUYF223Z25
	C895, 896	ELECTR. CAPACITOR	CEAS101M10
	C897	CERAMIC CAPACITOR	CKDYX473M25
	C898, 899	ELECTR. CAPACITOR	CEANP220M10

RESISTORS

Mark	No.	Description	Part No.
	R1900-1912	CARBONFILM RESISTOR	RD1/8PM□□□J
	R1914-1952	CARBONFILM RESISTOR	RD1/8PM□□□J

OTHERS

Mark	No.	Description	Part No.
		SOCKET	AKP1064
		SOCKET	AKP1065

⊙ SUPER CAPA ASSEMBLY (AWZ3589)

CAPACITORS

Mark	No.	Description	Part No.
	C974	ELECTR. CAPACITOR (47μF/5.5)	ACH1011

RESISTORS

Mark	No.	Description	Part No.
	R952	CARBONFILM RESISTOR	RD1/8PM□□□J

OTHERS

Mark	No.	Description	Part No.
	CN205	CONNECTOR (12P)	KPE12
	CN262	JUMPER CONNECTOR	KPC6
	CN1855	CONNECTOR (6P)	KPE6
	CN1858	JUMPER CONNECTOR	KPC6

⊙ VIDEO ASSEMBLY (AWZ3593)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC851		MC14051BCP
	IC852, 853		MC14577AP
	IC854	OUTPUT EXPANDER IC	PD0012A
	IC855		MC14577AP
	IC856		MC14051BCP
	Q851	TRANSISTOR	2SC3377
	Q852	TRANSISTOR	2SA1515
	Q853	TRANSISTOR	2SA1048
	Q854	TRANSISTOR	2SC2458
	Q855, 856	TRANSISTOR	2SA1115
	Q857	TRANSISTOR	2SC2878
	Q858	TRANSISTOR	RN2203
	Q859	TRANSISTOR	RN1203
	Q860	TRANSISTOR	RN2201
	D852, 853	DIODE	1SS252

COILS/TRANSFORMERS

Mark	No.	Description	Part No.
	L851-856	AXIAL INDUCTOR	LAU680K

CAPACITORS

Mark	No.	Description	Part No.
	C851-854		CKPUYF223Z25
	C855-858	ELECTR. CAPACITOR	CEAS101M10
	C859-863		CKPUYF223Z25
	C864, 865	ELECTR. CAPACITOR	CEAS101M10
	C866, 867		CKPUYF223Z25
	C868	ELECTR. CAPACITOR	CEANP220M10
	C970-972	CERAMIC CAPACITOR	CKDYF102Z50
	C973	CERAMIC CAPACITOR	CCDSL680J50

RESISTORS

Mark	No.	Description	Part No.
	R851-868	CARBONFILM RESISTOR	RD1/8PM□□□J
	R869	RESISTOR ARRAY (10K)	RA6S□□□J
	R870-895	CARBONFILM RESISTOR	RD1/8PM□□□J

OTHERS

Mark	No.	Description	Part No.
		PIN JACK (2P)	AKB1118
		PIN JACK (3P)	AKB1143

⊙ DSP ASSEMBLY (AWZ3112)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC100	DUAL ATT/BAL IC	M51132L
	IC101		RC4558DXP
	IC102	OP-AMP IC	M5223P
	IC103	OP AMP	M5238PF
	IC104		RC4558DXP
	IC105	OP AMP	M5238PF
	IC106	E-SW IC	TC9162N
	IC107	MEMORY IC	MB81464-12
	IC108	DSP IC	YM7306B
	IC109		RC4558DXP
	IC110	OP AMP	M5238PF
	IC111	E-TONE CONTROL IC	TC9184P
	IC112-115	OP AMP	M5238PF
	IC116-118		RC4558DXP
	IC119	REGULATOR IC	UPC78M05H

Mark	No.	Description	Part No.
	Q100	N-FET	2SK369
	D100-112	DIODE	1SS252
	D113, 114	ZENER DIODE	RD8.2ESB3
	D115	DIODE	1SS252

COILS/TRANSFORMERS

Mark	No.	Description	Part No.
	L101-104	FERRITE BEAD	ATX1008
	F100, 101	FILTER	ATF1071

CAPACITORS

Mark	No.	Description	Part No.
	C51-54	ELECTR. CAPACITOR	CEAS100M25
	C55, 56	CERAMIC CAPACITOR	CCDSL330J50
	C57	ELECTR. CAPACITOR	CEAS220M16
	C58	CERAMIC CAPACITOR	CKDYX104M16
	C59, 60	ELECTR. CAPACITOR	CEAS220M16
	C62	ELECTR. CAPACITOR	CEAS470M16
	C63, 64	CERAMIC CAPACITOR	CKDYX473M25
	C65	ELECTR. CAPACITOR	CEAS470M16
	C66, 67	ELECTR. CAPACITOR	CEAS100M25
	C68	CERAMIC CAPACITOR	CKDYX104M16
	C69	CERAMIC CAPACITOR	CKDYX473M25
	C70, 71	PL. STYRENE CAPACITOR	CQSXA332J160
	C72	CERAMIC CAPACITOR	CKDYX104M16
	C73	ELECTR. CAPACITOR	CEAS100M25
	C74	CERAMIC CAPACITOR	CKDYX104M16
	C75	ELECTR. CAPACITOR	CEAS100M25
	C76, 77	CERAMIC CAPACITOR	CCDCH220J50
	C78, 79	PL. STYRENE CAPACITOR	CQSA330K50
	C80, 81	ELECTR. CAPACITOR	CEAS100M25
	C82, 83	MYLOR FILM CAPACITOR	CQMA272K50
	C84, 85	CERAMIC CAPACITOR(0.01μ)	ACG1026
	C86, 87	MYLOR FILM CAPACITOR	CQMA682K50
	C88, 89	ELECTR. CAPACITOR	CEAS100M25
	C90	MYLOR FILM CAPACITOR	CQMA154K50
	C91, 92	ELECTR. CAPACITOR	CEAS100M25
	C93, 94	ELECTR. CAPACITOR	CEAS010M50
	C95, 96	CERAMIC CAPACITOR	CCDSL121J50
	C97, 98	CERAMIC CAPACITOR	CKDYX473M16
	C99, 100	ELECTR. CAPACITOR	CEAS220M16
	C101-104	AUDIO FILM CAPACITOR	CFTXA153J50
	C105, 106	AUDIO FILM CAPACITOR	CFTXA823J50
	C107, 108	MYLOR FILM CAPACITOR	CQMA302J50
	C109	ELECTR. CAPACITOR	CEAS100M25
	C110	CERAMIC CAPACITOR	CCDSL680J50
	C111	ELECTR. CAPACITOR	CEAS100M25
	C112	CERAMIC CAPACITOR	CCDSL101J50
	C113-115	ELECTR. CAPACITOR	CEAS100M25
	C116, 117	CERAMIC CAPACITOR	CCDSL680J50
	C118, 119	ELECTR. CAPACITOR	CEAS100M25
	C120, 121	CERAMIC CAPACITOR	CCDSL101J50
	C122, 123	ELECTR. CAPACITOR	CEAS100M25
	C124	ELECTR. CAPACITOR	CEAS101M16
	C125	CERAMIC CAPACITOR	CKDYX104M16
	C126, 127	PL. STYRENE CAPACITOR	CQSA330K50
	C128, 129	MYLOR FILM CAPACITOR	CQMA272K50
	C130, 131	CERAMIC CAPACITOR(0.01μ)	ACG1026
	C49		CKDYX104M16
	C132, 133	MYLOR FILM CAPACITOR	CQMA682K50
	C134, 135	ELECTR. CAPACITOR	CEAS100M25
	C136, 137	CERAMIC CAPACITOR	CCDSL121J50
	C138-140	ELECTR. CAPACITOR	CEAS100M25
	C141-148	CERAMIC CAPACITOR	CKDYX473M16
	C150, 151	CERAMIC CAPACITOR	CKDYX104M16
	C152	CERAMIC CAPACITOR	CKDYB331K50
	C153	CERAMIC CAPACITOR	CCDSL121J50
	C154	CERAMIC CAPACITOR	CKDYB331K50
	C155	ELECTR. CAPACITOR	CEAS221M16
	C156	CERAMIC CAPACITOR	CKDYB103K50
	C157, 158	ELECTR. CAPACITOR	CEAS470M16
	C159	CERAMIC CAPACITOR	CKDYX104M16
	C160	ELECTR. CAPACITOR	CEAS470M16
	C161	CERAMIC CAPACITOR	CKDYX104M16
	C162, 163	ELECTR. CAPACITOR	CEAS220M16
	C164, 165	ELECTR. CAPACITOR	CEAS470M16
	C166	CERAMIC CAPACITOR	CKDYB102K50

RESISTORS

Mark	No.	Description	Part No.
	R51-57	CARBONFILM RESISTOR	RD1/8PM□□□J
	R60	CARBONFILM RESISTOR	RD1/8PM□□□J
	R62, 63	CARBONFILM RESISTOR	RD1/8PM□□□J
	R65-73	CARBONFILM RESISTOR	RD1/8PM□□□J
	R75	CARBONFILM RESISTOR	RD1/8PM□□□J
	R76	CARBONFILM RESISTOR	RD1/4PMFL□□□J
	R77-95	CARBONFILM RESISTOR	RD1/8PM□□□J
	R100-117	CARBONFILM RESISTOR	RD1/8PM□□□J
	R120-131	CARBONFILM RESISTOR	RD1/8PM□□□J
	R132, 133	CARBONFILM RESISTOR	RD1/4PMF□□□J
	R134, 135	METALFILM RESISTOR	RN1/4PC□□□□F
	R136-146	CARBONFILM RESISTOR	RD1/8PM□□□J
	R148-151	METALFILM RESISTOR	RN1/4PC□□□□F
	R152-161	CARBONFILM RESISTOR	RD1/8PM□□□J
	R164-171	CARBONFILM RESISTOR	RD1/8PM□□□J
	R174, 175	CARBONFILM RESISTOR	RD1/4PMFL□□□J
	R176-181	CARBONFILM RESISTOR	RD1/8PM□□□J
	VR52	VR	VRTS6VS473

OTHERS

Mark	No.	Description	Part No.
	X100	CRYSTAL RESONATOR	ASS1050

5. ADJUSTMENTS

ADJUSTMENT OF DSP SECTION

Preparation

1. Set the surround mode to DOLBY PROLOGIC.
2. Set the center mode to WIDE.
3. Set the TONE to FLAT.

Adjustments

1. Input 1 kHz signal with in–phase and the same level (approx. 100 mV to 1V) to both Lch and Rch of the VCR1 on the rear panel, respectively.
2. Short–circuit the terminals of P101 and P102 in the DSP assembly.
3. Rotate the VR52 (VCA TRIM) in the DSP assembly and adjust so that the outputs of the F–L and F–R of CN103 go below –40 dB against the output of CEN, and that both channels become the same levels as much as possible.
4. Remove the P101 and P102 terminals short–circuited in the DSP assembly.
5. Input 1 kHz signal with in–phase and which is of 1 dB level difference in between Lch and Rch, into the Lch and the Rch of the VCR1 on the rear panel respectively, and confirm that the outputs of the F–L and F–R go below –40 dB against the outputs of CN103 CEN.

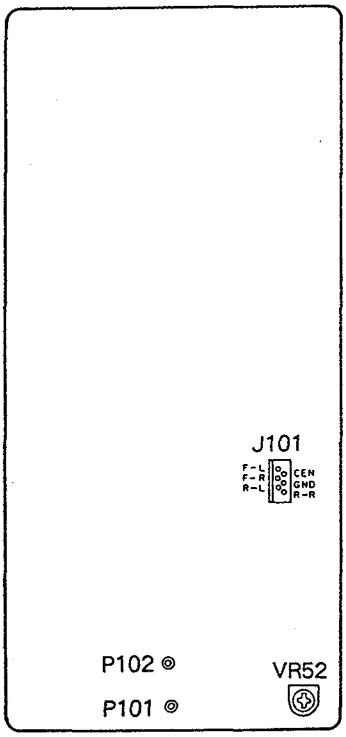


Fig. 1 DSP Section Adjustment Points

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6. IC INFORMATION (PD5151A: FOR REMOTE CONTROL UNIT)

● Terminal Function

Pin No.	Symbol	I/O	Function	Active
1	P6.2	O	N.C.	–
2	P6.1	O	N.C.	–
3	P6.0	O	Key scan output	L
4	P4.7	O	Key scan output	L
5	P4.6	O	Key scan output	L
6	P4.5	O	Key scan output	L
7	P4.4	O	key scan output	L
8	P4.3	O	Key scan output	L
9	P4.2	O	Key scan output	L
10	P4.1	O	Key scan output	L
11	P4.0	O	Key scan output	L
12	P3.7	O	Key scan output	L
13	P3.6	O	Key scan output	L
14	P3.5	I	External RAM (present/absent) discrimination input	L/H
15	P3.4	I	Remote control envelope signal input	L
16	CNTR	I	Remote control signal input	H
17	$\overline{INT2}$	I	Key on wake up signal input	↓
18	SYNC	O	N.C.	–
19	R/$\overline{W}$	O	R/$\overline{W}$ signal output	H/L
20	$\overline{INT1}$	I	Remote control envelope signal input	↓
21	NC	–	N.C.	–
22	NC	–	N.C.	–
23	NC	–	N.C.	–
24	CNVss	I	GND (started up by signal chip mode)	–
25	$\overline{RES}$	I	Reset signal input	L
26	Xin	I	Clock signal input	–
27	Xout	O	Clock signal output	–
28	ϕ	O	Timing clock signal output	H/L
29	Vss	–	GND	0V
30	P5.7	I	Key scan input	L
31	P5.6	I	Key scan input	L
32	P5.5	I	Key scan input	L
33	P5.4	I	Key scan input	L
34	P5.3	I	Key scan input	L
35	P5.2	I	Key scan Input	L
36	P5.1	I	Key scan input	L
37	P5.0	I	Key scan input	L
38	NC	–	N.C.	–
39	A15	O	Address signal output	H/L
40	A14	O	Address signal output	H/L

Pin No.	Symbol	I/O	Function	Active
41	A13	O	Address signal output	H/L
42	A12	O	Address signal output	H/L
43	A11	O	Address signal output	H/L
44	A10	O	Address signal output	H/L
45	A9	O	Address signal output	H/L
46	A8	O	Address signal output	H/L
47	A7	O	Address signal output	H/L
48	A6	O	Address signal output	H/L
49	A5	O	Address signal output	H/L
50	A4	O	Address signal output	H/L
51	A3	O	Address signal output	H/L
52	A2	O	Address signal output	H/L
53	A1	O	Address signal output	H/L
54	A0	O	Address signal output	H/L
55	NC	–	N.C.	–
56	D7	I/O	Data signal I/O	H/L
57	D6	I/O	Data signal I/O	H/L
58	D5	I/O	Data signal I/O	H/L
59	D4	I/O	Data signal I/O	H/L
60	D3	I/O	Data signal I/O	H/L
61	D2	I/O	Data signal I/O	H/L
62	D1	I/O	Data signal I/O	H/L
63	D0	I/O	Data signal I/O	H/L
64	NC	–	N.C.	–
65	Vss	–	GND	0V
66	NC	–	N.C.	–
67	Vdd	–	Power supply	+5V
68	P6.7	O	Learning mode display (LED) output	L
69	P6.6	O	Transmission display (LED) output	L
70	P6.5	O	Infrared receiving amplifier (ON/OFF) output	L/H
71	P6.4	O	Remote control signal output	H
72	P6.3	O	Remote control output boost (ON/OFF) output	H/L

7. PROGRAMABLE REMOTE CONTROL UNIT (CU–VSA013: AXD1217)

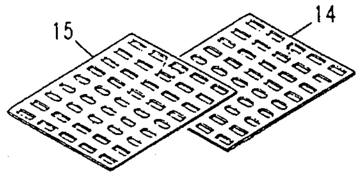
7.1 EXPLODED VIEW AND PARTS LIST

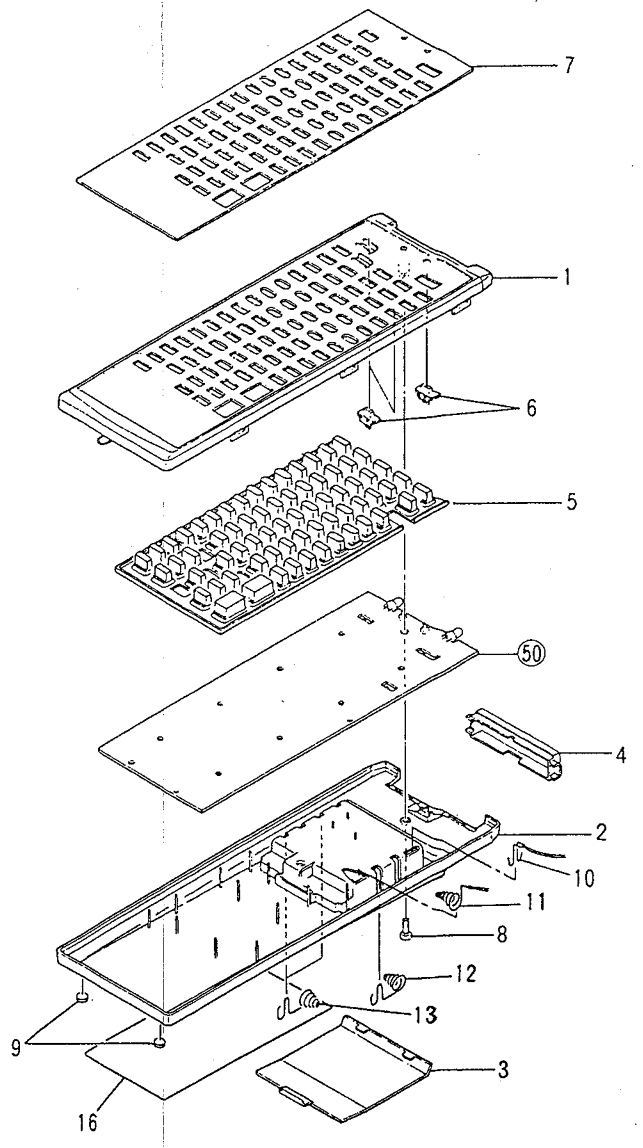
NOTES:

- Parts without part number cannot be supplied.
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

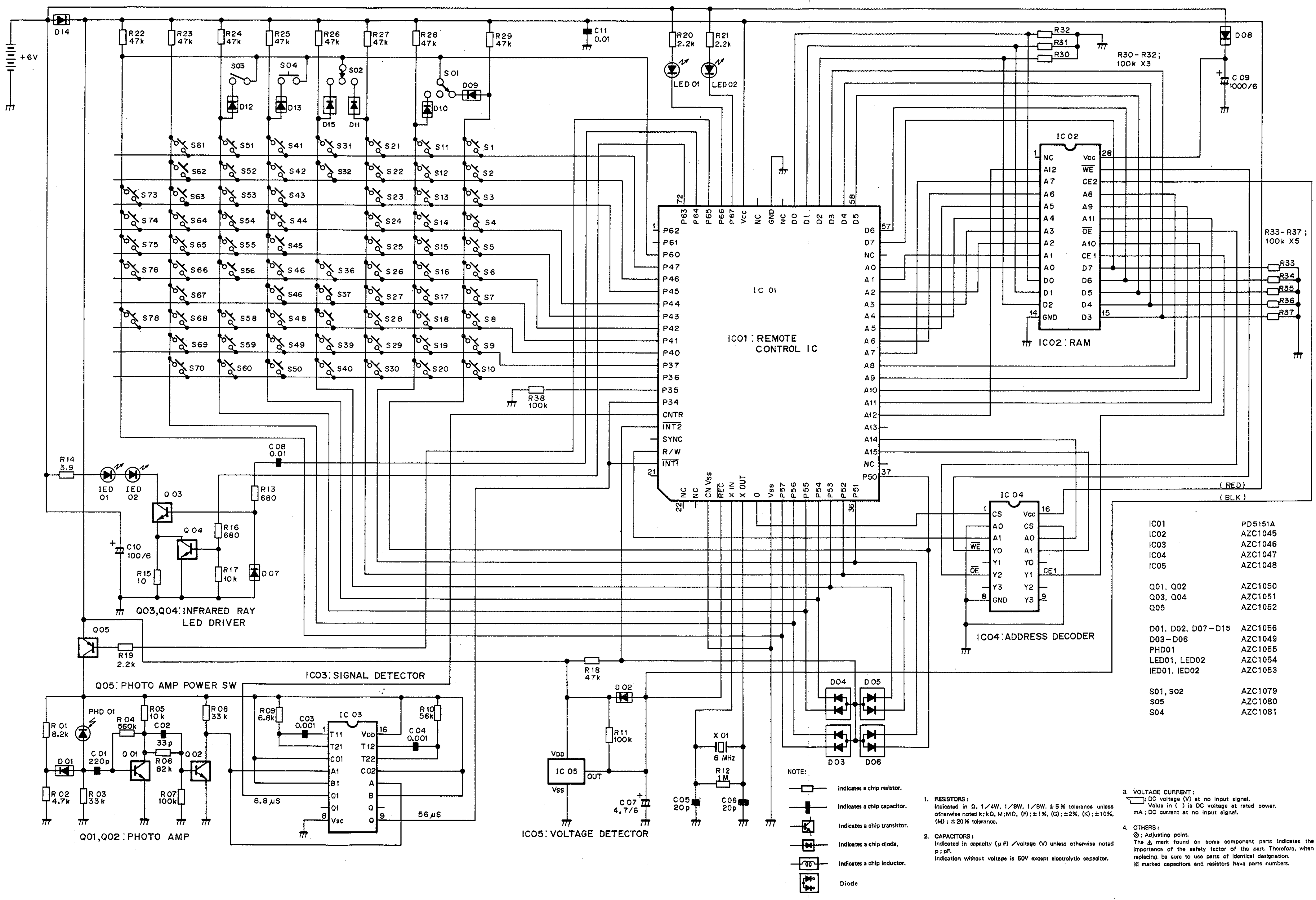
Parts List

Mark	No.	Description	Part No.
	1	Case (A)	AZH1033
	2	Case (B)	AZH1034
	3	Case (C)	AZH1035
	4	Filter	AZN1400
	5	Rubber switch	AZA1318
	6	Knob	AZS1042
	7	Name plate	AZA1319
	8	Screw	AZB1124
	9	Leg	AZN1401
	10	Electrode spring	AZB1274
	11	Electrode spring	AZB1275
	12	Electrode spring	AZB1276
	13	Electrode spring	AZB1277
	14	Sheet (TV)	AAK1847
	15	Sheet (LD)	AAK2111
	16	Label	AZA1273
	50	PCB board	......





7.2 SCHEMATIC DIAGRAM



+6V
D14
R22 47k
R23 47k
R24 47k
R25 47k
R26 47k
R27 47k
R28 47k
R29 47k
C11 0.01
R20 2.2k
R21 2.2k
LED 01
LED 02
R32
R31
R30
R30-R32; 100k X3
D08
C09 1000/6
S03
S04
S02
S01
D12
D13
D15
D11
D10
D09
IC 02
IC02 : RAM
IC 01
IC01 : REMOTE CONTROL IC
R33-R37; 100k X5
R33
R34
R35
R36
R37
R38 100k
R14 3.9
IED 01
IED 02
Q 03
Q 04
C08 0.01
R13 680
R16 680
R17 10k
D07
C10 100/6
R15 10
Q03,Q04 : INFRARED RAY LED DRIVER
Q05
R19 2.2k
Q05 : PHOTO AMP POWER SW
IC03 : SIGNAL DETECTOR
IC 03
R01 8.2k
PHD 01
R04 560k
R05 10k
C02 33p
R06 82k
R08 33k
R09 6.8k
C03 0.001
R10 56k
C04 0.001
D01
C01 220p
Q 01
Q 02
R02 4.7k
R03 33k
R07 100k
6.8μS
56μS
Q01,Q02 : PHOTO AMP
R18 47k
D02
R11 100k
IC 05
C07 4.7/6
IC05 : VOLTAGE DETECTOR
X01 6 MHz
R12 1M
C05 20p
C06 20p
D04
D05
D03
D06
IC 04
IC04 : ADDRESS DECODER
(RED)
(BLK)

IC01	PD5151A
IC02	AZC1045
IC03	AZC1046
IC04	AZC1047
IC05	AZC1048
Q01, Q02	AZC1050
Q03, Q04	AZC1051
Q05	AZC1052
D01, D02, D07−D15	AZC1056
D03−D06	AZC1049
PHD01	AZC1055
LED01, LED02	AZC1054
IED01, IED02	AZC1053
S01, S02	AZC1079
S05	AZC1080
S04	AZC1081

NOTE:

Indicates a chip resistor.

Indicates a chip capacitor.

Indicates a chip transistor.

Indicates a chip diode.

Indicates a chip inductor.

Diode

1. RESISTORS :
   Indicated in Ω, 1/4W, 1/6W, 1/8W, ±5% tolerance unless otherwise noted k; kΩ, M; MΩ, (F); ±1%, (G); ±2%, (K); ±10%, (M); ±20% tolerance.
2. CAPACITORS :
   Indicated in capacity (μF) /voltage (V) unless otherwise noted p; pF.
   Indication without voltage is 50V except electrolytic capacitor.
3. VOLTAGE CURRENT :
   ; DC voltage (V) at no input signal.
   Value in ( ) is DC voltage at rated power.
   mA ; DC current at no input signal.
4. OTHERS :
   ⊘; Adjusting point.
   The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
   ※ marked capacitors and resistors have parts numbers.

5. SWITCHES (Underline indicates switch position)

S01 : AUDIO/VIDEO/AUX
S02 : SR RECALL/USE/LEARN
S03 : DECK I/DECK II
S04 : RESET

TAPE/VCR
S1 : VCR POWER
S2 : ● TAPE/VCR
S3 : ⏸ TAPE/VCR
S4 : ○ REC MUTE/VCR CH −
S5 : TAPE SELECT/VCR CH +
S6 : ◀◀
S7 : ◀/ANT
S8 : ■
S9 : ▶
S10 : ▶▶

CD/LD
S11 : ⏮ CHP FR-TM
S12 : ⏸
S13 : CD/LD POWER
S14 : DISC SEL/DISPLAY
S15 : ⏭ SEARCH
S16 : ◀◀
S17 : ■
S18 : ▶
S19 : ▶▶

TUNER/CD/TV/LD
S20 : 1/13
S21 : 2/14
S22 : 3/15
S23 : 4/16
S24 : 5/17
S25 : 6/18
S26 : 7/19
S27 : 8/20
S28 : 9/21
S29 : 0, 10/22
S30 : 11/MEMORY/23
S31 : 12/CLEAR/24

TUNER/CD/PHONO/TV/LD
S32 : 1, 12/13, 24/DUAL
S36 : PGM
S37 : FREQUENCY −/TV CHANNEL −
S38 : FREQUENCY +/TV CHANNEL +
S39 : TV POWER
S40 : CD + 10/TV FUNC
S41 : PHONO ■/TV VOL −
S42 : PHONO ▶/TV VOL +
S43 : TV DISP

AMP
S44 : VCR 1
S45 : VCR 2
S46 : VCR 3
S47 : LD
S48 : TV/BS
S49 : VIDEO
S50 : TAPE 1/DAT
S51 : TAPE 2
S52 : DIRECT / V. SEL
S53 : LINE
S54 : CD
S55 : TUNER
S56 : PHONO
S58 : INPUT/EFFECT LEF −
S59 : AMP POWER
S60 : MUTING
S61 : FRONT R
S62 : FRONT L
S63 : MASTER VOLUME −
S64 : MASTER VOLUME +
S65 : REAR LEVEL −
S66 : REAR LEVEL +
S67 : TEST TONE
S68 : CENTER MODE
S69 : REAR R
S70 : REAR L
S73 : CENTER LEVEL −
S74 : CENTER LEVEL +
S75 : SURROUND MODE
S76 : INPUT/EFFET LEV +
S78 : DELAY TIME

7.3 P.C. BOARD DIAGRAMS

NOTE:

Indicates a chip resistor.

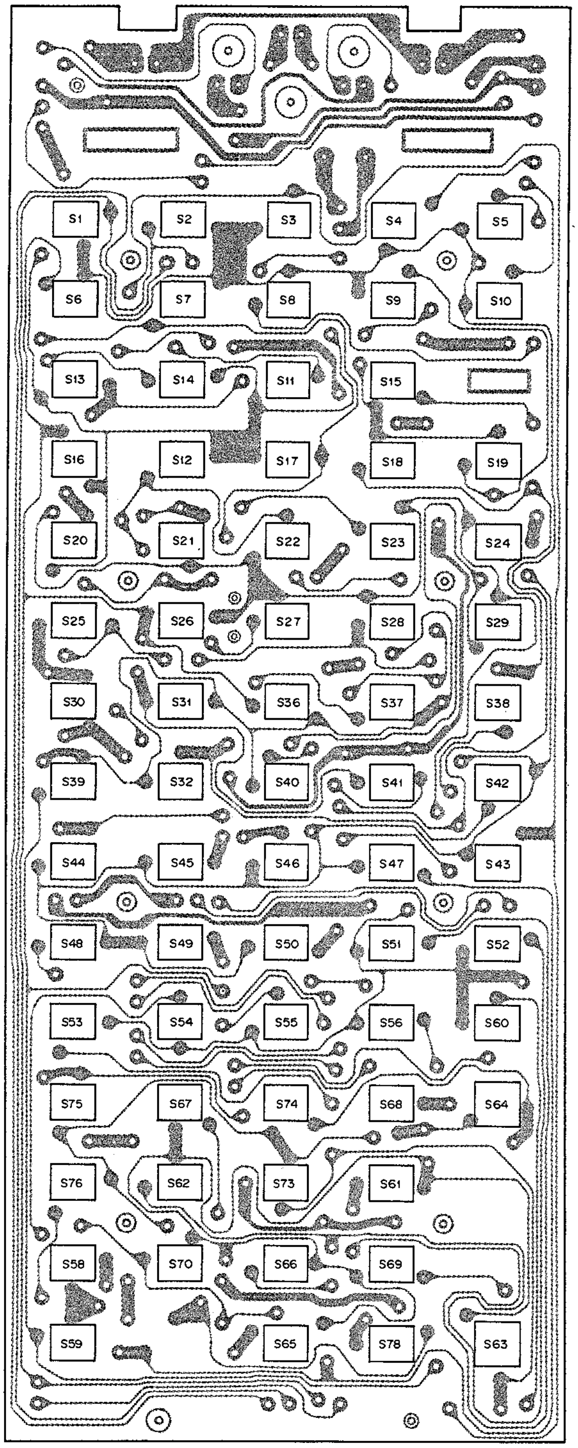
Indicates a chip capacitor.

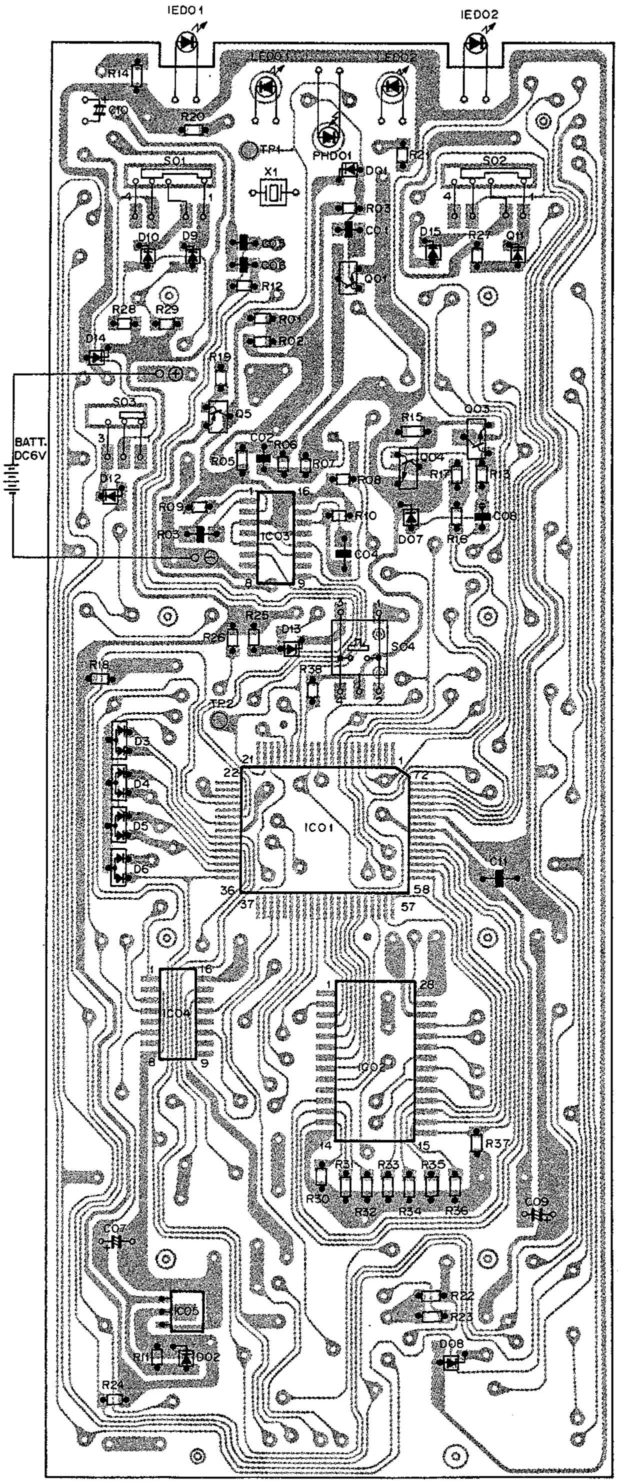
Indicates a chip transistor.

Indicates a chip diode.

Indicates a chip inductor.

Diode


S1
S2
S3
S4
S5
S6
S7
S8
S9
S10
S13
S14
S11
S15
S16
S12
S17
S18
S19
S20
S21
S22
S23
S24
S25
S26
S27
S28
S29
S30
S31
S36
S37
S38
S39
S32
S40
S41
S42
S44
S45
S46
S47
S43
S48
S49
S50
S51
S52
S53
S54
S55
S56
S60
S75
S67
S74
S68
S64
S76
S62
S73
S61
S58
S70
S66
S69
S59
S65
S78
S63


IED01
IED02
R14
C10
LED01
LED02
R20
TP1
PHD01
R21
S01
S02
X1
D01
R03
C01
D10
D9
D15
R27
Q11
C05
C03
R12
Q01
R28
R29
R01
R02
D14
R19
Q5
BATT.
DC6V
S03
Q03
R15
C02
R06
R05
R07
Q04
R17
R13
D12
R08
R09
R10
R16
C06
R05
IC03
D07
C04
R25
D13
R26
S04
R18
R38
TP2
D3
D4
D5
D6
IC01
22
21
1
72
36
37
58
57
C11
IC04
1
16
8
9
IC02
28
14
15
R37
R31
R33
R35
R30
R32
R34
R36
C09
C07
IC05
R22
R23
R11
D02
D08
R24

7.4 P.C.B's PARTS LIST

NOTES:

- Parts without part number cannot be supplied.
- Parts marked by " ⊙ " are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%)

560 Ω → 56×10^1 → 561 ································ RD1/4PS$\boxed{5}\boxed{6}\boxed{1}$J
47k Ω → 47×10^3 → 473 ································ RD1/4PS$\boxed{4}\boxed{7}\boxed{3}$J
0.5 Ω → 0R5 ··· RN2H$\boxed{0}\boxed{R}\boxed{5}$K
1 Ω → 010 ··· RS1P$\boxed{0}\boxed{1}\boxed{0}$K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562×10^1 → 5621 ································ RN1/4SR$\boxed{5}\boxed{6}\boxed{2}\boxed{1}$F

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	IC1		PD5151A
	IC2		AZC1045
	IC3		AZC1046
	IC4		AZC1047
	IC5		AZC1048
	Q1, Q2		AZC1050
	Q3, Q4		AZC1051
	Q5		AZC1052
	D3-D6		AZC1049
	D1, D2, D7-D15		AZC1233
	IED1, IED2		AZC1053
	LED1, LED2		AZC1054
	PHD1		AZC1055
SWITCHES			
	S1, S2	SLIDE SWITCH	AZC1079
	S5	SLIDE SWITCH	AZC1080
	S4	SLIDE SWITCH	AZC1081
CAPACITORS			
	C1		AZC1058
	C2		AZC1059
	C5, C6		AZC1060
	C8		AZC1061
	C3, C4		AZC1062
	C11		AZC1063
	C10		AZC1251
	C7		AZC1252
	C9		AZC1255

Mark	No.	Description	Part No.
RESISTORS			
	R1		AZC1064
	R2		AZC1065
	R3, R8		AZC1066
	R5, R17		AZC1068
	R6		AZC1069
	R9		AZC1070
	R10		AZC1071
	R12		AZC1072
	R7, R11, R30-R38		AZC1073
	R19-R21		AZC1074
	R13, R16		AZC1075
	R15		AZC1076
	R18, R22-R29		AZC1077
	R14		AZC1078
	R4		AZC1256
OTHERS			
	X1	RESONATOR	AZC1057

8. SPECIFICATIONS

Audio Section

STEREO (FRONT)

Continuous average power output of 75 watts* per channel, min., at 8 ohms, from 20Hz to 20,000Hz with no more than 0.008%* * total harmonic distortion (front).

Continuous power output
  SURROUND
  FRONT (1 kHz, 0.3%, 8Ω) ··········· 70W + 70W
  CENTER (1 kHz, 0.3%, 8Ω) ··········· 70W
  REAR (1 kHz, 5%, 8Ω) ··········· 23W + 23W
Music power (1kHz, 10%, 8Ω)
  STEREO
  FRONT ··········· 140W + 140W
Dynamic power output
  4Ω/8Ω ··········· 140W/100W
SN ratio (Old HF=A201, short circuit, A network)
  PHONO MM ··········· 72dB
  TUNER, CD, LINE, TAPE1/DAT, TAPE2, VIDEO, TV/BS, LD, VCR1, VCR2, VCR3 ··········· 96dB
Input terminal (sensitivity/impedance)
  PHONO MM ··········· 2.5mV/50kΩ
  TUNER, CD, LINE, TAPE1/DAT, TAPE2, VIDEO, TV/BS, LD, VCR1, VCR2, VCR3 ··········· 150mV/30kΩ
Frequency characteristics
  PHONO MM, 20Hz ~ 20kHz ··········· ±0.3dB
  TUNER, CD, LINE, TAPE1/DAT, TAPE2, VIDEO, TV/BS, LD, VCR1, VCR2, VCR3, 5Hz ~ 100kHz ··········· $^{+0}_{-3}$dB
Output terminal (output level/impedance)
  TAPE1/DAT, TAPE2, REC ··········· 150mV/2.2kΩ
  VCR, VCR3, PRE OUT ··········· 150mV/2.2kΩ
  FRONT PRE OUT ··········· 1V/2.2kΩ
  SUPER WOOFER OUT ··········· 1V/2.2kΩ
Tone Control (Front, Center, Rear)
  BASS ··········· ±8dB(100Hz)
  TREBLE ··········· ±8dB(10kHz)
Muting ··········· −∞

Video Section

Input terminal (sensitivity/impedance)
  VCR1, VCR2, VCR3, LD, TV/BS, VIDEO
  ··········· 1Vp-p/75Ω
Output terminal (sensitivity/impedance)
  VCR1, VCR2,TO MONITOR TV ··········· 1Vp-p/75Ω
S terminal (sensitivity/impedance)
  Input terminal
  VCR1, VCR2, VCR3, LD, TV/BS, VIDEO ···········
  1Vp-p/75Ω(luminance signal)
  0.286Vp-p/75Ω(color signal)
  Output terminal
  VCR1, VCR2, TO MONITOR TV ···········
  1Vp-p/75Ω(luminance signal)
  0.286Vp-p/75Ω(color signal)
Frequency characteristics
  VCR1, VCR2, VCR3, LD, VIDEO, TO MONITOR TV, 10Hz ~ 10MHz ··········· $^{+0}_{-3}$dB

Surround Section

Surround PRE OUT
  (output level/impedance) ··········· 1V/2.2kΩ
Frequency characteristics
  LD → REAR SPEAKER OUT(DOLBY SURROUND position), 30Hz ~ 7kHz ··········· $^{+0}_{-3}$dB
Delay time (time of Dolby Pro Logic Surround only)
  Variable range ··········· 16ms ~ 30ms
  Step ··········· 2ms Step

Power Supply Component, Others

Power requirements ··········· AC110/120−127/220/240V (switchable), 50/60Hz
Power consumption ··········· 654W
AC outlet
  SWITCHED (x1) ··········· 100W MAX
External dimensions ··········· 420(W)x427(D)x162(H)mm
Weight ··········· 13.8kg

** Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output claims for Amplifier.*
** * Measured by Audio Spectrum Analyzer.*

Accessories

Operating Instructions ··········· 1
Remote Control Unit ··········· 1
Template ··········· 2
Size AAA alkaline dry cell batteries LR03(AM-4) ··········· 4

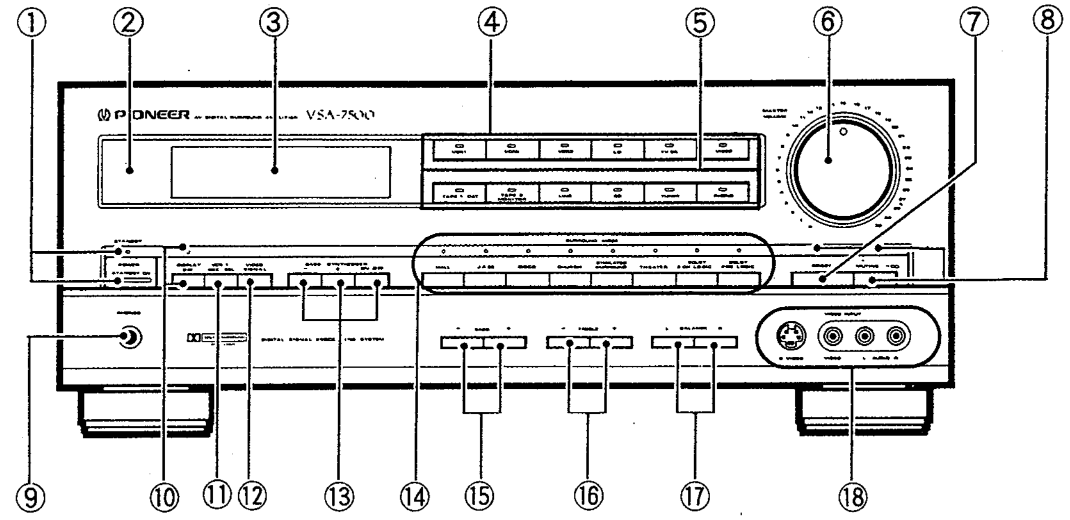
NOTE:
Specifications and the design subject to possible modifications without noice due to improvements.

MAINTENANCE OF EXTERNAL SURFACES

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surfaces are very dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and then wipe again with a dry cloth. Do not use furniture wax or cleaners.
- Never use thinners, benzine, insecticide sprays and other chemicals on near this unit, since these will corrode the surfaces.

9. PANEL FACILITIES

• FRONT PANEL



① POWER STANDBY/ON switch / STANDBY indicator

This is the switch for electric power.

ON:	When set to the ON position, power is supplied and the unit becomes operational.
STANDBY:	When set to the STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain opetation readiness.

- The indicator lights when the unit is in the standby mode.
- The accessory remote control unit can also be used to operate STANDBY/ON function of this switch.
- When not using the unit for a long period, disconnect the power cord.
- In standby condition, the last sources to be selected on the audio system (excluding PHONO) and the video system (excluding items connected to S terminal) are maintained. For this reason, absentee sound recording or absentee video recording can be executed with the power supply in standby condition.

② Remote control sensor

③ Display

④ Video input selector

Selects the video unit for playback. The indicator lights up red.

VCR1:	Press for playback of the VCR connected to the VCR1 terminal.
VCR2:	Press for playback of the VCR connected to the VCR2 terminal.
VCR3:	Press for playback of the VCR connected to the VCR3 terminal.
LD:	Press for disc playback with CD, CDV, LD player connected to LD terminal.
TV/BS:	Press for watching broadcasts with TV tuner or BS tuner.
VIDEO:	Press for playback of unit (i.e.,TV camera) connected to VIDEO INPUT terminal on front panel.

⑤ Audio Input Selector

Selects the audio unit for playback. The indicator lights up red.

TAPE1/DAT:	Press for playback of tape with DAT or cassette deck connected to TAPE1/DAT terminal.
TAPE2 MONITOR:	Press for playback of tape with DAT or cassette deck connected to TAPE2 terminal. Press once again to turn to OFF.
LINE:	Press for using an audio unit connected to the LINE terminal.
CD:	Press for CD playback with a CD player connected to the CD terminal.
TUNER:	Press for listening to AM or FM broadcast with tuner connected to TUNER terminal.
PHONO:	Press for playback of records on turntable connected to PHONO terminal.

⑥ MASTER VOLUME

In adjusting the sound volume with this knob, the front, rear and center change simultaneously. Moreover, output from PRE OUT terminal, the CENTER AMPLIFIER OUT terminal and the SUPER WOOFER OUT terminal, all on the rear panel, changes simultaneously.

⑦ DIRECT Button/Indicator

Press this button ON (indicator lights up) to hear the source sound without passing through a sound quality adjustment circuit or balance adjustment circuit. In order to enjoy better sound quality at the front, do not use Surround, Tone Control (Bass,Treble), Balance or Bass Synthesizer.
When the DIRECT button is ON, if you press an operation button which does not function, the DIRECT indicator blinks to give notice.

⑧ MUTING Button/Indicator

Press this button to extinguish the sound volume temporarily. At this time the muting indicator blinks. When pressed again, the original sound volume is restored.

⑨ Headphones terminal (PHONES)

Connect the headphones plug to this terminal.

If a speaker is connected to II terminal, but the speaker selector switch is at the "I AND II" position, there will be no sound.

⑪ AC OUTLETS

SWITCHED TOTAL 100W MAX

For a second unit is connected in linkage with the setting (ON-STANDBY (OFF)) of the power supply switch (STANDBY/ON) for this unit, the power supply to that unit can be set to ON-OFF (the power supply switch of second unit is set at ON).

Set so that the total power consumption does not exceed 100W.

Power Consumption of Power Supply Outlet

- Never connect an electrical unit (i.e., toaster, drier) whose power consumption exceeds the value of W shown on the panel. Otherwise, there is the danger of breakdowns and fire.
- Do not connect television sets. Even if the power consumption of a TV set is less than the allowance value, when the power is connected, there can be huge surges of current which exceed the allowance value.

⑫ AUDIO INPUT Terminals

- **LINE**

Can be connected to output terminal of audio unit.

- **CD**

Can be connected to output terminal of compact disc player.

- **TUNER**

Can be connected to output terminal of FM/AM tuner.

- **PHONO/GND**

Record player output cord can be connected to this terminal.
An Earth wire is connected to the GND terminal.
Use a moving magnet (MM) type cartridge with the turntable.

⑬ LD Terminals

This terminal is connected to the output (video, audio) terminal of CD, CDV, LD player.

- In the case of a CD, CDV, LD player with S video output terminal, the S terminal can also be connected.

⑭ TV/BS Terminals

Connected to output (video, audio) terminal of BS tuner or TV tuner.

- In the case of a tuner with S video output, the S terminal can also be connected.

⑮ TO MONITOR TV Terminals

Connected to the video input terminal of monitor TV.
Only signals input from S terminal are output by the S terminal of the monitor TV. Consequently, nothing can be output unless the S input terminal of LD, VCR1, 2, 3, TV/BS, or VIDEO INPUT (front panel) has been connected.

⑯ CENTER AMP PREOUT Terminal

This terminal is used when a separate power amplifier is employed to amplify power at the front center.

⑰ SUPER WOOFER OUT Terminal

This terminal is used to connect a center woofer power amplifier when you want to strengthen the bass region of the center channel or you want to use a 3D system.
The frequency characteristic of this channel is cut by a characteristic of 6dB/oct at about 100Hz or above.

⑱ CENTER SPEAKERS Terminals

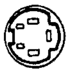
Connects center speakers for Dolby Pro Logic Surround and Dolby 3CH Logic. Since two systems can be connected, a center speaker can be placed at each side of a TV and used as dual center (see page 18).
When the speaker selector is at "I ONLY," use a speaker with impedance of 8 to 16 ohms. When the speaker selector is at "I AND II," use speakers with impedance ranging from 4 to 16 ohms each.

⑲ POWER Cord

NOTE:

- *In this unit, S terminal (Y-C separation) and pin jack video terminal are independent from each other, so signals input from pin jack are output from pin jack and signals input from S terminal are output from S terminal.*

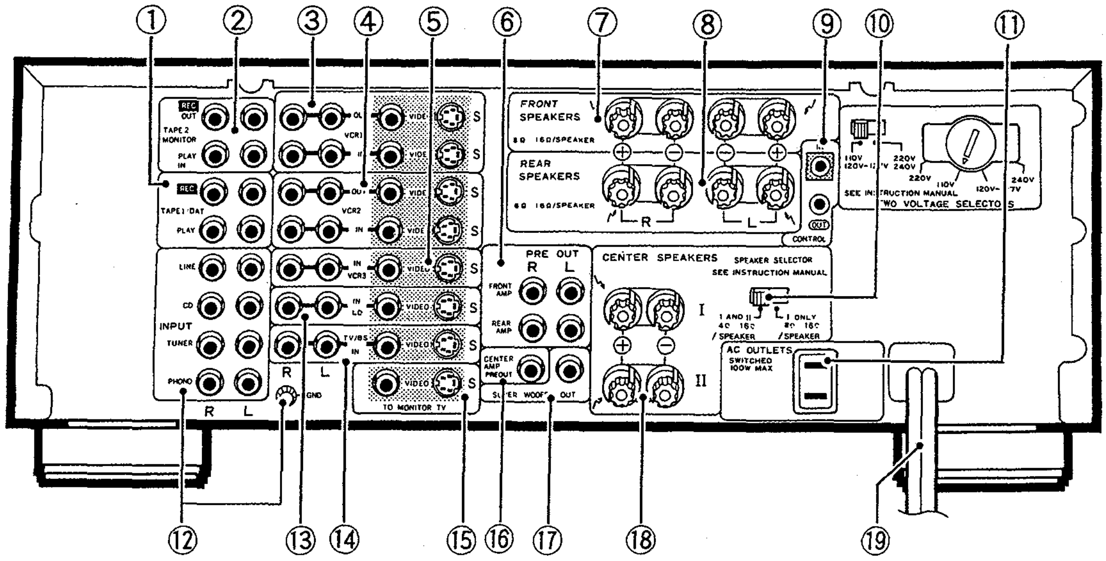
········· Composite system terminal


········· S terminal

• Concerning 3D System

3D is an abbreviation of "three dimensional" in the three dimensional stereo system. This system is a stereo 2-channel with an additional channel that magnifies and reproduces excessively low sounds. The format makes use of the fact that the human ear loses almost all sense of direction with frequencies of long wavelength at 100 Hz or below; the low sound components of right and left are synthesized as one channel, and the speaker for playback of ultra-low sounds is driven by a special-purpose amplifier. This scheme is also called the center woofer format. Its distinguishing characteristic is that it handles super woofer, which tends to become large-scale, with one channel.

REAR PANEL


①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
REC OUT
TAPE 2 MONITOR
PLAY IN
REC
TAPE1·DAT
PLAY
LINE
CD
INPUT
TUNER
PHONO
R L
GND
VIDEO
VCR1
VCR2
VCR3
LD
TV/BS
S
TO MONITOR TV
FRONT SPEAKERS
8Ω 16Ω/SPEAKER
REAR SPEAKERS
8Ω 16Ω/SPEAKER
PRE OUT
R L
FRONT AMP
REAR AMP
CENTER AMP PREOUT
SUPER WOOFER OUT
CENTER SPEAKERS
SPEAKER SELECTOR
SEE INSTRUCTION MANUAL
I
II
I AND II
I ONLY
CONTROL
OUT
AC OUTLETS
SWITCHED 100W MAX
110V
120V
220V
240V
SEE INSTRUCTION MANUAL
TWO VOLTAGE SELECTORS
⑫
⑬
⑭
⑮
⑯
⑰
⑱
⑲

① TAPE1/DAT Terminals

REC:

Can be connected to the record input terminals of the first cassette deck or the digital audio tape deck.

PLAY:

Can be connected to the playback output terminals of the first cassette deck or the digital audio tape deck.

NOTE:

For connection of the digital audio tape deck, connect to analog input/output terminals.

② TAPE2 MONITOR Terminals

REC:

Can be connected to the record input terminals of the second cassette deck.

PLAY:

Can be connected to the playback output terminals of the second cassette deck.

③ VCR1 Terminals

IN:

Can be connected to the playback output (video, audio) terminals of the first VCR.

OUT:

Can be connected to the video record (video, audio) input terminals of the first VCR.

- For a VCR having a S video input/output terminal, the S terminal can also be connected.
- If audio output of the VCR is monaural, use a stereo--monaural cord sold on the market.

④ VCR2 Terminals

Used to connect with the second VCR.

Connection is made in the same way as with the first VCR (except for S terminal connection).

⑤ VCR3 Input Terminals

Can be connected to playback terminals of the third VCR.

⑥ PRE OUT Terminals

This terminal is used when a separate power amplifier is employed for power amplification.

FRONT AMP: for front L, R
REAR AMP: for rear L, R

If a separate amplifier has been connected to the PRE OUT terminal, do not connect a speaker to the speaker terminal of this unit.

⑦ FRONT SPEAKERS Terminals

The right and left speakers at the front are connected through these terminals.

Use speakers with an impedance of 8 to 16 ohms.

⑧ REAR SPEAKERS Terminals

The right and left speakers at the rear are connected through these terminals.

⑨ CONTROL IN/OUT Terminals

These terminals are for input or output of control signals for centralized remote control of various units by the remote control component provided with this unit.

⑩ CENTER SPEAKER SELECTOR Switch

This switch changes the speaker impedance for when only one center speaker is connected, or two speakers are connected.

When one speaker only is connected:

Be sure to set the switch to "I ONLY" (right side), and always connect a speaker with impedance of 8 to 16 ohms to the I terminal.

When two speakers are connected:

Be sure to set the switch to "I AND II" (left side), and always use speakers with an impedance of 4 to 16 ohms.

NOTE:

Switch the SPEAKER SELECTOR when the unit power supply is at STANDBY. Do not switch the selector when the power supply is at ON.

⑩ DISPLAY OFF Button/Indicator

When this button is pressed, the display extinguishes and the DISPLAY OFF indicator lights up. This stops operation of circuits not in use and prevents adverse effects on sound quality.
Press the button again and the display lights up again.
If another operation button is pressed while the display is extinguished, the display lights up for several seconds.

⑪ VCR1 REC SEL (SELECTOR) Button

Selects unit for video recording to VCR1 other than unit selected with video input selector.
Each time this button is pressed, the unit video recording to VCR1 is switched over in the following sequence.

→ VCR2 → VCR3 → LD → TV/BS → VIDEO
(no display)

For example, TV/BS video recording at VCR1 can be executed while watching LD.
(The video input selector is set to LD and the VCR1 recording selector is set to TV/BS.)

NOTE:
Do not select VCR1 with the video input selector.

⑫ VIDEO SIGNAL Button

Enables you to change the video alone to another source without changing the audio portion. For example, you can listen to the sound from an LD while watching the video from VCR1. When this button is pressed, the screen changes in the sequence given below, and each input selector indicator lights up as orange.
⟨When source is selected with audio input selector⟩

→ VCR1 → VCR2 → VCR3 → LD → TV/BS
OFF ← VIDEO

⟨When source is selected with video input selector⟩

→ VCR1 → VCR2 → VCR3 → LD
VIDEO ← TV/BS

The orange indicators show the video source and the red indicators show the audio source.

⑬ BASS SYNTHESIZER Buttons

Use this button when you want to magnify heavy bass sounds and playback powerful music pieces. It produces a dynamic effect for scenes of battles or explosions in movies. Press the bass synthesizer button to ON and the level can be adjusted in increments of 10 from 0 to 100 with the – + button.

⑭ SURROUND MODE Buttons/Indicators

Selects the surround mode matching the playback source for surround playback.
The indicator of the selected mode lights up.
It goes OFF when pressed once again.

⑮ BASS Buttons

Adjusts sound quality in the low range. Press the + side to magnify low sounds and the − side to diminish these sounds. If the + and − are pressed simultaneously, the front alone become flat.

⑯ TREBLE Buttons

Adjusts sound quality in the high range. Press the + side to magnify high sounds and the − side to diminish these sounds. If + and − are pressed simultaneously, the front alone becomes flat.

⑰ BALANCE Button

Adjusts the balance of sound at right and left.
L ········ Press when sound at the left is lower than at the right.
R ········ Press when sound at the right is lower than at the left.
If L and R are pressed simultaneously, no adjustment takes place.
When the surround button of the remote control is used, the front and rear can be adjusted separately.

⑱ VIDEO INPUT Terminal

This terminal connects TV camera or other video unit. If the monitor TV has an S terminal and it is connected to the S output terminal of this unit, the S input terminal can also be used.

NOTE:

- *For playback of audio or video units other than those connected to TAPE2 terminal, set the TAPE2 MONITOR button to OFF (TAPE2 indicator extinguishes).*
  When the TAPE2 MONITOR button is at ON, there is no sound.
  If another function button is pressed while the TAPE2 MONITOR button is ON, the TAPE2 MONITOR indicator and the TAPE2 indicator on the display blink to give notice that the other functions cannot be executed.
  If the power supply switch (POWER) is pressed while the power supply is in standby condition, the listening status before the power supply was put in standby mode is restored. (Last memory function)
  The last memory function remains effective for severai days even if the power cord is removed or there is a power failure.
- *If buttons which do not function at time of DIRECT condition are pressed while DIRECT is at ON, the indicator blink to give notice.*
- *If the surround mode button is pressed while DIRECT is at ON, DIRECT goes OFF.*
- *The effect of the bass synthesize may be excessive, depending on the source of playback, so be careful not to raise the level too high.*